



Fiber Optic Solutions

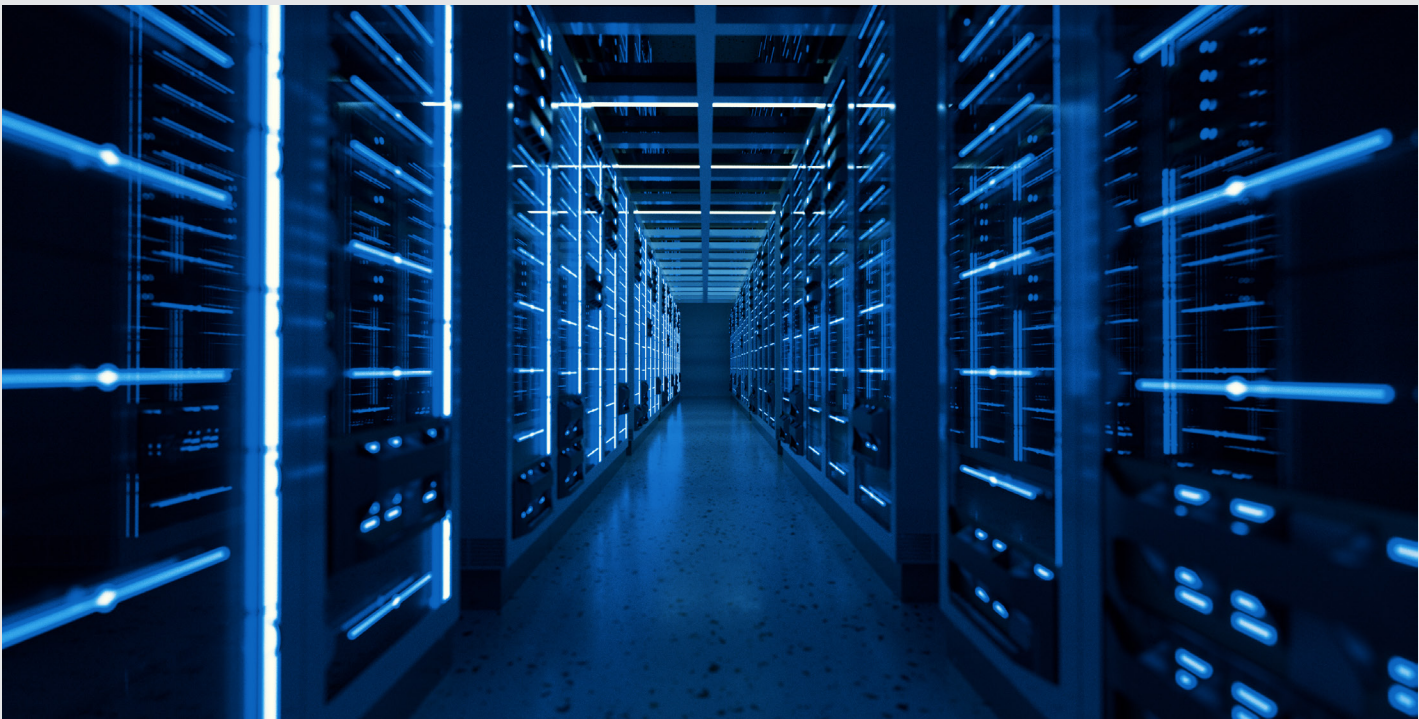
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Fiber Optic Solutions

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Line Hardware

Deltec® Cable Support System

Designed to perform a minimum of 20 years outdoors.

- Double-locking head with corrosion-resistant locking barbs in copper alloy
- No sharp edges: operator friendly, cable friendly.
- Easy to install, low installation costs
- Extremely robust ties with high tensile strength (1110N) after fastening
- Strapping made of toughened, weatherable acetal
- UV-, moisture- and salt-resistant and halogen-free environments



MFG #	Description	BOR #
TYD-50R	Deltec Strapping on Reel, 0.5" W x 50' L	783150
TYD-LH	Deltec Double-locking Heads, Pkg. of 25	3567436

U-Guard™ — Plastic

Designed to give non-conductive, high impact protection for utility power and communication cables installed vertically on poles.

- Installs quickly and easily with EMC's U-Guard™ fasteners
- Easily field cut to desired length
- Ribbed surface
- Belled end on 2" through 6" provides for overlap on adjacent sections
- Excellent UV protection



Electrical Materials Company
Products for the Utility Industry
SBA HUBZone Certified



MFG #	Description	BOR #
PE-1UG8	1" x 8" Flanged Riser	3294785
PE-1.25UG10	1-1/4" Plastic	3384451

15° Communication Standoff Bracket

- Medium duty.
- Fiberglass units do not warp, split or shrink
- All units coated with a special ultraviolet-resistant polyurethane gray paint or silicone coating
- Shipped ready to install

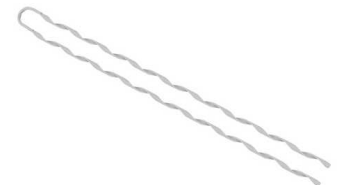


MFG #	Length	Fiberglass diameter	Min ultimate verticle load	Min ultimate longitudinal	Min ultimate transverse	Weight ea	BOR #
1CSM12	12"	1-1/2"	2100	1300	1500	3.8 lbs	800244
1CSM18	18"	1-1/2"	1500	1000	1500	4.6 lbs	129910
1CSM24	24"	1-1/2"	1100	700	1500	5.4 lbs	800245

Formed Wire Deadend for Guy Strand 1/4"

For deadend applications of support guy wires. FWDE will hold a minimum of 100% of the guy wire rated breaking strength.

- For HSS, EHS, Common, Siemens-Martin, Utilities and Bell System Strand grades
- Zinc plated (B-coat) EHS steel construction
- 6650 lb (29.6 KN) maximum RBS

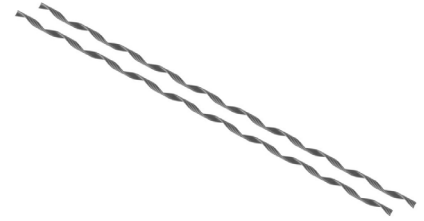


MFG #	Nominal size	Maximum rbs	Nominal length	Diameter range	Color code	Units per box	Weight per box	BOR #
FWDE	1/4"	6650 lbs	25"	0.231-0.259"	Yellow	50	24 lbs	1720219

Formed Wire Galvanized Steel Splice

FWLS series formed wire are designed for use on all types of galvanized guy wire (EHS, High Strength, Common, Siemens-Martin, Utilities and Bell System Strand).

- For repairing damaged or severed guy wire or messenger cable.
- FWLS will hold a minimum of 100% of the guy wire rated breaking strength (ultimate strength) when centered over the severed or point of damage.
- Consult factory for information on use if damaged area exceeds length of splice.
- Left hand lay standard.



Mfr. Model #	Nominal Size	Max RBS	Nominal Length	Diameter Range	Number of Subsets	Color Code	Units Per Box	Box Weight	BOR Part #
FWLS2104	1/4" (3W and 7W)	6650 lbs	35"	0.231-0.259	2	Yellow	50	34 lbs	3400405

Guy Hooks

For attaching a guy wire to the pole. Galvanized to ASTM A-153.

- Guy Hook, 1 bolt style (5004), keeps guy wire from creeping downward in wrapped guy applications. Hooks should be used under bolt heads for maximum shear strength
- Cast ductile iron guy-hook attachment (aka Ram's Head or Goat Hook) for deadending guy and messenger wire (GH5). Minimum ultimate tensile strength is 12,400 lbs and maximum strand size is 7/16". Includes 11/16" upper hole, 9/16" lower hole and backside cleats for wood pole installation. Manufactured to specification IEEE C135.90



Mfr. Model #	Bolt Hole Dia.	Weight Ea.	BOR Part #
5004	9/16"	.67 lbs	614306
GH5	11/16"	1.3 lbs	792503

Drive Hooks

- Hooks used to attach wedge type service drops and deadend clamps to crossarms, poles or buildings



Mfr. Model #	Size	BOR Part #
C2050190	7/16" Dia, 4-3/4" L	100040
PSC2050605	5/16" Dia, 3-1/2" L	3497868

Lag Screws

- Galvanized per ASTM A-153
- Upset shoulder



Mfr. Model #	Thread Type	Head Shape	Diameter	Length	Point Type	BOR Part #
508753	Fetter	Square	1/2"	3"	Drive	130557
8722GP	Gimlet	Square	1/4"	2"	Regular	573402
DF1L3	Gimlet	Hex	1/4"	3"	Regular	146561

Square Head Machine Bolts

- Square head machine bolts have 5/8" diameter and cone point
- Includes one square nut
- Rated tensile strength is 12,400 lbs
- Hot dip galvanized per ASTM A-153
- Manufactured in compliance with ANSI C135.1
- RUS listed, c - Bolt, machine



Mfr. Model #	Length	Min Thread Length	Weight Ea	BOR Part #
8808	8"	4"	0.78 lbs	130471
8810	10"	4"	0.93 lbs	130473
8812	12"	6"	1.08 lbs	130474
8814	14"	6"	1.23 lbs	130475
8816	16"	6"	1.40 lbs	130476
8818	18"	6"	1.54 lbs	130477
8820	20"	6"	1.71 lbs	130478
8822	22"	6"	1.76 lbs	100837

Line Hardware

Eyenuts, Eyelets and Nuts

- Eyenuts are commonly used for deadending, back-guying and attaching pole head guys on the threaded ends of crossarm bolts. Drop-forged, hot-dip galvanized steel
- Eyelets are used on ordinary machine bolts for straight-away guys. Rounded groove protects guy strand from sharp kinks and bends. Drop-forged galvanized steel.
- Construction for high-strength applications.
- Curved lock nut (3512) is made to give tight connections.



Mfr. Model #	Thread Type	Head Shape	Diameter	Length	BOR Part #
6502	Eyenut	5/8"	Yes	.675	130403
6510	Eyenut	5/8"	Yes	.865	130405
6519	Eyelet	5/8"	No	1.25	130407
3512	Lock Nut	5/8"	Yes	.04	130351
55084P	Square Nut	5/8"	Yes	0.1	573322

3-Bolt Messenger Suspension Clamps

- Used with 5/8" diameter through bolt to support cable at poles at corner or angled runs (7902L) or straight runs (7903)
- Through bolt also serves as clamping member
- Two carriage bolts included



Mfr. Model #	Type	For Strand Size	Length	Center Hole Dia	Weight Ea	BOR Part #
7902L	3-Bolt Angle	1/4" thru 7/16"	7"	11/16"	2.04 lbs	574470
7903	3-Bolt Straight	1/4" thru 7/16"	5-3/4"	11/16"	1.78 lbs	130451

Square Washers

- Square flat washer with 11/16" diameter hole for 5/8" diameter bolt
- Manufactured in compliance with NEMA PH-10
- Galvanized per ASTM A-153 or ASTM B695
- RUS listed



Mfr. Model #	Washer Size	Hole Diameter	Bolt Diameter	Weight Ea	BOR Part #
6812	2 x 2 x 1/8"	11/16"	5/8"	0.12 lbs	130425
6813	2-1/4 x 2-1/4 x 3/16"	11/16"	5/8"	0.24 lbs	130426

Straight Thimbleye® Bolt

- Internal eye dimensions are 9/16" x 11/16"
- Includes one square nut
- Rated tensile strength is 12,400 lbs
- Hot dip galvanized per ASTM A-153. RUS listed, ao - Bolt, strand eye, straight (thimble eye)
- Contoured eye keeps guy strand from kinking, bending or spreading
- Drop-forged steel



Mfr. Model #	Size	Thread Length	Weight Ea	BOR Part #
5510	5/8 x 10"	4"	1.48 lb	130386
5512	5/8 x 12"	6"	1.76 lb	130387
5514	5/8 x 14"	6"	1.88 lb	614470
5516	5/8 x 16"	6"	1.92 lb	614472

Corner Attachment Bracket

- Integral thimble eye pole attachment for dead ending strand and guy grips at angles of 35 to 60 degrees
- Pole mounting surface is curved with integral spurs for stability during mounting and life of installation
- Accommodates maximum 1/2" diameter strand/guy grips
- Ductile iron per ASTM A536, galvanized per ASTM A153



Mfr. Model #	Coating	Carton Qty	BOR Part #
PSC2080479	Galvanized	20	3547030

Span Clamps

C Span Clamp

- Provides drop wire clamp attachment at the mid-span
- Accepts strand size range of 1/4" to 3/8"
- Clamp plates are aluminum with 3/8" steel hardware
- Threads are staked to prevent loss of nut during installation
- Galvanized coating
- Carton quantity: 100



D Lashing Clamp

- Secures terminated lashing wire in aerial applications
- Accepts strand size range of 1/4"–7/16"
- Stud is staked to prevent loss of nut



E Span Clamp

- Provides drop wire clamp attachment at the mid-span
- Accepts strand size range of 1/4" to 7/16"
- Clamp plates and 3/8" hardware are steel
- Threads are staked to prevent loss of nut during installation
- Meets BellCore standard CA08391
- Galvanized coating
- Carton quantity: 50



Q Span Clamp

- Provides drop wire clamp attachment at the mid-span
- Accepts strand size range of 1/4" to 7/16"
- Clamp plates and 1/4" hardware are galvanized steel
- Threads are staked to prevent loss of nut during installation



Multidrop Span Clamp

- Used to attach multiple drop cables at one location using drop wire clamps or direct attachment
- Bolt staked to prevent loss of nut during installation
- Accepts 1/4" strand
- Galvanized per ASTM A-153
- PSC2080475 carton quantity: 100
- PSC2080475 carton quantity: 50



Mfr. Model #	Description	BOR Part #
CCSC	C Span Clamp	3546968
CDLC	D Lashing Clamp	3547031
CESC	E Span Clamp	3546968
CQSC	Q Span Clamp	3546973
PSC2080475	Multidrop Span Clamp	3546971
PSC2080572	Multidrop Span Clamp with Ground Screw	3546972

Straps and Spacers

Spacer creates space between messenger strand and aerial cable.

- Bell spacer is black UV-stabilized plastic
- Stainless steel lashing strap is 3/4" wide and used to support cables or cable bundles on the messenger



Mfr. Model #	Type	Size	Material	Carton Qty	Weight Ea	BOR Part #
PSC2080421	Bell Spacer	1/2"	Plastic	4000	.011 lbs	3400401
C10SSLC	Lashing Strap	10"	Stainless Steel	500	0.026 lbs	3400402
C16SSLC	Lashing Strap	16"	Stainless Steel	500	0.04 lbs	3303748

Automatic Guy Wire Deadend

3/16" EHS, Common, Siemens-Martin, Utilities and Bell System Strand.

- Innovative yoke design allows for installation without the use of a gripping hook



Mfr. Model #	Guy Wire Size	Range	Carton Qty	BOR Part #
GDE5199	3/16" 7 Strand	0.145–0.215"	50	3547037

Automatic Aluminum Guy Wire Splice

Full tension auto splice, for 5/16" Alumoweld, HS, Common, Utilities, Siemens-Martin guy grades.

- Individually bagged to seal out dirt before use
- For splicing applications with overhead or support guy wires
- Hold a minimum of 90% of the guy wire rated breaking strength



Mfr. Model #	Primary Strand Application	Range	Length	Diameter	BOR Part #
GLS5041	5/16" EHS, 7#10 (10M), 7#11 (8M) AW	0.270"–0.315" (6.86–8.00)	8.6"	1.22"	2243653

Fiber Optic Solutions Construction

Line Hardware

Cable Suspension Clamp

Used with through bolts to serve as a clamping member.

- Made from rolled, high quality steel, hot dip galvanized per ASTM A153 for maximum corrosion protection
- SI-1740 and J1096 conform to Bellcore specification 8623



Mfr. Model #	Description	Carton Weight	BOR Part #
J1096	Cable Suspension Clamp	43 lbs	580788
SI-1740	Cable Suspension Clamp	45 lbs	1473246
SI-1755	Cable Suspension Clamp, Curved	53 lbs	1473247

Strandvise Connector

Used for deadend applications with overhead or down guy wire.

- Rated to hold a minimum of 90% of RBS of the strand used
- Color indicator for easy identification
- "Universal Grades" are recommended for use with Alumoweld, EHS, aluminized and galvanized steel strand



Mfr. Model #	Description	BOR Part #
5199	Strandvise Connector, 3/16" Universal Grade Strand, Red	133613

Guy Hook

Used for down and span guys.

- Constructed of ductile iron, hot dip galvanized
- Features smooth grooves to eliminate chafing of the strand
- Accepts a wide range of strand diameters
- 5/8" mounting hole



Mfr. Model #	Description	BOR Part #
SI-4425	Guy Hook, Bellcore Specification 7909	3535158

Drive Hooks

Used for securing drop wire attachments and service drops.

- Rolled fether drive threads and pilot point for east starting
- Constructed of hot dip galvanized



Mfr. Model #	Description	Dimensions	Other	BOR Part #
J3316P	Drive Hook, Bellcore Specification 7365	7/16" x 4-3/4"	—	149789
J3318	Drive Hook, Bellcore Specification 7365	7/16" x 4-3/4"	Strike Pad	580572
SI-3000	Drive Hook, Bellcore Specification 7365	5/16" x 3-1/2"	—	3486527

Lashing Hardware

Used for deadend applications with overhead or down guy wire.

- Steel
- Lashing Wire is used for easy and permanent termination of lashing wire to messenger strand
- Lashing Strap is used to strap CATV and telephone cable to steel strand in aerial construction
- Straps are .010" thickness x 3/4" wide
- Strap edges are processed to be smooth and free of burrs
- Polyethylene spacer is 1/2" wide



Mfr. Model #	Description	BOR Part #
SI-2175	D Cable Lashing Wire Clamp, Accepts 1/4" (6.6M) to 7/16" (16M) Messenger Strand	1473253
SI-7511-10	10" Lashing Strap	3012400
SI-7511-16	16" Lashing Strap	3535159
SI-7512-050	1/2" Lashing Strap Spacer	3012401

Lashing Wire

Used to support CATV and Telephone cable to messenger strand in aerial construction.

- Made from high strength non-corrosive steel
- Wire is fully annealed and wax coated for ease of use



Mfr. Model #	Description	BOR Part #
SI-9609	Lashing Wire	3535160

Bekaert Lashing Wire

Bekaert Lashing wire delivers essential flexibility, strength and corrosion resistance needed for securing fiber optic cables in OSP telecommunications projects, meeting ASTM A580 standards.

- Support fiber optic cables in outside plant telecommunications projects
- Designed with stainless steel to resist corrosion, ensuring longevity and reliability in various environmental conditions
- Features an average break strength ranging from 1,200 to 1,600 pounds, depending on the grade, ensuring a secure hold for the fiber optic cables
- Compatible with most cable lashers, making it a versatile choice for various installation methods and equipment

Mfr. Model #	AISI Grade	Wire Diameter (inch)	Length (ft) per Coil	Package	Weight per Box (lb)
657511	302SS	0.038	1600	6 Coils/Box	37
657513	302SS	0.045	1200	6 Coils/Box	40
657510	430SS	0.045	1200	6 Coils/Box	40

1/4" EHS 7 Wire A475 Guy Wire Class A

Commonly used as messenger wire, reinforcing fiber optic cables for overhead data lines.

- Also applicable as guy wire, reinforcing vertical structures for overhead transmission grids.
- Hot-dip galvanized with Class A coating weight, the most widely used standard
- 5000' reel



Mfr. Model #	Description	BOR Part #
14EHSGUYCLSA7 STR5000FTRLA475	1/4" EHS 7 Wire A475 Guy Wire Class A 5,000' Reel	3012517

3/8" HS 7 Wire A363 Static Strand Class A

Crafted with reinforced steel cores for superior quality and durability, static strand or overhead ground wire (OHGW) is a grounding cable strung above the power and data lines to protect it from lightning.

- Benefits include reduction in line losses, solutions for special conditions, cost efficient.
- Hot-dip galvanized with Class A coating weight, the most widely used standard



Mfr. Model #	Description	BOR Part #
3/8 HS ASTM A363	3/8" HS 7 Wire A363 Static Strand Class A	3385798

Line Hardware

Span Clamps

- E-Span clamp is used for mid-span drop wire take offs and holds cable away from obstacles in the line of aerial construction
- Q-Clamps are designed for strand
- Multi-span clamps are designed for 1/4" messenger strand and provide fast, easy mid-span take-offs for service drops
- C-span clamps are made for 1/4" to 3/8" strand



Mfr. Model #	Description	Strand Size	Standard Pack Quantity	Carton Weight	Material	BOR Part #
SI-0024	E Span Clamp	1/4"-7/16"	100	40 lbs	Hot-Dipped Galvanized Steel	3458741
SI-0513	Q Span Clamp	1/4"-7/16"	120	22 lbs	Mechanically Plated Steel	3162136
SI-0514	O Span Clamp	1/4"-3/8"	200	22 lbs	Mechanically Plated Steel with Aluminum Plate	3521319
SI-0515	Multi Span Clamp	1/4"	100	22 lbs	Mechanically Plated Steel	3521321
SI-0515GC	Multi Span Clamp	1/4"	100	18 lbs	Mechanically Plated Steel	3521322
SI-0515MB	Multi Span Clamp	1/4"	120	22 lbs	Mechanically Plated Steel	3521323
SI-0952	C Span Clamp	1/4"-3/8"	200	48 lbs	Mechanically Plated Steel with Aluminum Plate	3521320

Corner Attachment

- Constructed of ductile iron, hot dip galvanized
- Corner attachment clamps are used for 35 and 60 degrees
- The inner pole mounting surface is curved with integral spurs for contact

- The integral thimbleye will accept deadening devices up to 1/2" diameter
- Accommodates 5/8" diameter pole mounting



Mfr. Model #	Description	BOR Part #
P294	Corner Attachment	2403801

Dura-Ty® Cable Ties

- Weather, chemical and UV-resistant for harsh outdoor power and communications applications
- Durable locking mechanism, complete with double stainless steel locking barbs, provides a consistent, reliable connection and high-impact resistance and strength
- Extra-heavy cross section, are made of weather resistant acetal



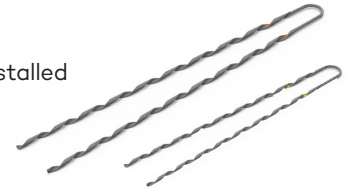
PANDUIT®

Mfr. Model #	Description	Color	Height	Width	Length	Std. Pkg. Qty.	Std. Ctn. Qty.	BOR Part #
DTHEH-Q0	Cable Tie Heads	Black	0.49"	0.72"	—	50	1000	1201703
DTREH-LR0	Strapping	Black	—	0.50"	50 ft. Reel	—	—	1201701
SACS50-T100	Stackable Spacers	Black	0.5"	1.2"	2.1"	200	2000	562924

GUY-GRIP® Dead-End

Anchors millions of utility poles all over the world.

- Rated at 100% of the strand's published rated breaking strength
- Intended for single use but can be reinstalled twice within 90 days

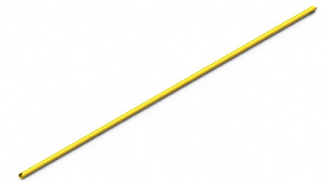


PREFORMED LINE PRODUCTS

Mfr. Model #	Coat Type	Size	Strand Construction	Mean Diameter	Length	Color Code	Units Per Carton	Weight Per Carton (lbs)	BOR Part #
GDE-1104	B-Coat	1/4"	3W/7W	.259"/.240"	25"	Yellow	50	24	161277
GDE-1107	B-Coat	3/8"	3W/7W	.356"/.360"	35"	Orange	50	51	161109

Guy Marker

- Designed to identify down guys or other wire and cable installations where anchoring devices are exposed to pedestrian and/or vehicular traffic
- Comes in four different profiles with six attachment combinations
- Manufactured out of Polyethylene or PVC
- Premium UV inhibitors for long life span
- One or two piece designs
- Lightweight
- Installs on down guys in seconds
- Easily installed on strand sizes ranging from 3/16"–1/2" (4.7–12.7 mm)
- Reflective stripe option available
- Deters vandalism
- Ships in boxes, bags or on bulk pallets



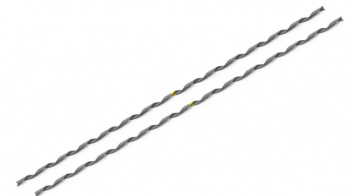
PREFORMED LINE PRODUCTS

Mfr. Model #	Length	Color	Material	Tube Profile	Tube OD	Attachment Type	BOR Part #
PGMS3921	8'	Yellow	Poly	Round	1-1/2"	UCT	3173794

Strand Splice

Intended for use on guys or messengers.

- Rated for 100% of the strands published rated breaking strength unless otherwise noted
- Made of the same basic material as the strand to which they are applied



PREFORMED LINE PRODUCTS

Mfr. Model #	Coat Type	Size	Strand Construction	Mean Diameter	Length	No. of Subsets	Color Code	Units Per Carton	Weight Per Carton (lbs)	BOR Part #
GLS-2104	EHS C-Coat	1/4"	7W	.240"	35"	2	Yellow	50	34	1079586
GLS-2107	EHS C-Coat	3/8"	7W	.360"	50"	3	Orange	25	38	161116

Line Hardware

SLACKLOOP® In-Span Cable Storage Brackets

Designed to make aerial slack cable storage faster and easier.

- During installation, the cable is clipped into the tabs and the storage bracket is pulled into its final position at the back of the cable loop. The cable is secure and the installer's hands are free to apply cable ties.
- 12" (30.5 cm) and 16" (40.6 cm) diameter sizes
- Available with hanger brackets for either lashed messenger cable systems or ADSS
- Vertical stacking of multiple cables provides large storage capacity in a small profile
- Abrasion Protectors or Uni-Group Cable Guide are offered as pole pass options for cable slack against the pole



PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Material	Size	Units Per Carton	BOR Part #
FIS16A	16" SLACKLOOP In-Span Bracket, ADSS	Plastic	16"	2	3535161
FIS16M	16" SLACKLOOP In-Span Bracket, Strand	Plastic	16"	2	3535162

SLACKLOOP® Vertical Cable Storage Bracket — Fixed Crossarm

Fixed Crossarm Systems are crossarms that are bolted together with a vertical member that can be bolted or banded to the structure.

- Metal channel structural frame provides a durable light-weight design with ridged strength that is easy to install
- Corrosion resistant aluminum
- Bolt together fixed Crossarm packs in uniform low profile container that reduces shipping cost and is easier to inventory — supports a 33" loop diameter for ADSS cables
- Multiple keyholes adapt various splice cases
- Wide cable keepers avoid point loads and provide better cable support



PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Material	Size	Units Per Carton	BOR Part #
8004072	SLACKLOOP Vertical Cable Storage Bracket — Fixed Crossarm	Aluminum	43" x 43"	1	3460096

Anchors

Auxiliary Eye

- Bolts to existing anchor rods to add an additional point of attachment for guying
- Can be used as pulling eye for guy tensioning
- Minimum ultimate tensile strength is 18,000 lbs
- Thimble hole is 5/8" x 1"
- U-bolts are 1/2" diameter
- Cast ductile iron body and spacers
- Galvanized per ASTM A-153



Mfr. Model #	Description	BOR Part #
BB155A	Auxiliary Eye, for 5/8" to 1" Rods	782169

PISA 6 Anchor

- Anchor has curvilinear leading edges to help penetrate rocky soils and to reduce damage during installation
- 1" threads to fit 3/4" and 1" diameter Pisa rod
- Anchors are painted with a black paint
- Installed with Chance anchor wrench C3031064 or C3030983



Mfr. Model #	Description	BOR Part #
E1020822	Pisa 6 Anchor Helix- 6,000 Ft Lbs (8,136 N-M), Two 8" (203mm) Helices for Use With 0.75" (19.1mm) or 1" (25.4 mm) Rod	569422

Bust Expanding Anchor

- Expand to take full advantage of the eight blade wedges to expand into undisturbed soil
- Hot dipped galvanized per ASTM A153
- Nut retainer on bottom of anchor holds nut in place during installation
- The effectiveness of the anchor is dependent upon proper size hole and the thoroughness of backfill tamping



Mfr. Model #	Description	BOR Part #
108234	Expanding Anchor for 10" (254mm) Hole Used with 0.75" (19.1mm) Diameter Rod	130337

No Wrench Anchors

- Hot dipped galvanized per ASTM A153
- Can be installed by hand or machine to a greater depth to reach a firmer soil by using an extension rod



Mfr. Model #	Description	BOR Part #
6346	No-Wrench 66" (1676mm) Long with 6" (152mm) Helix Tripleye	130393
PS816	No-Wrench 66" (1676mm) Long with 8" (203mm) Helix Tripleye	130313

Galvanized Anchor Rod

- Available for one, two or three guys for use with expanding and Cross Plate Anchor
- Twineye® rods distribute pulling stresses uniformly over individual strands of guy wire and keep the guy wire from spreading, kinking or bending.
- Hot dipped galvanized per ASTM A153
- Square nut assembled to rod
- Rods used with Cross-plate and Expanding anchors



Mfr. Model #	Description	BOR Part #
5358	Expanding/Cross-Plate Anchor Rod 0.75" (19.1mm) Diameter Rod, 8' (2438mm) Long with Twineye	130379

Drop Hardware

Steel City® Aluminum Service Cap

Clamp-type service cap for use with rigid/intermediate or thinwall conduit

- Used with 1" trade size conduit
- Includes 5 holes
- Hole sizes: (2) 7/16" and (3) 1/2"
- UL listed, CSA certified



Mfr. Model #	Description	BOR Part #
SH103	Steel City Aluminum Service Cap for 1" Conduit	162211

Rock Anchor

- Anchor expands and wedges against solid walls of rock
- The large drop-forged Tripleye® rod holds up to three guy strands
- Requires 2" diameter hole in competent rock a minimum depth of 12"
- Hot dipped galvanized per ASTM A153



Mfr. Model #	Description	BOR Part #
R353	Expanding Rock Anchor 0.75" (19.1mm) Diameter Rod, 53" (1346mm) Long with Tripleye.	100390

S-Clips

- Form a loop with the cable end and place within the sides of the clip
- Pinch closed to secure the cable
- Factory formed to simplify field installation
- Aluminum



Mfr. Model #	Type	Weight Ea.	Package Qty	BOR Part #
PSC2170155	For 1-2 Pair Cable	.005	500	3546966
PSC2170156	For 6 Pair Cable	.005	500	3546967

Drop Hardware

Drop Wire Clamp for 2-Pair Cable

- Body and serrated shim are 304 stainless steel; and wire bail is 430 stainless
- Packaged as 2 clamps per bag, 25 bags per box and 8 boxes per master carton
- Rated for 555 lbs per Telcordia specification GR-3174
- Common industry term is P Clamp



Mfr. Model #	Material	Weight Ea	BOR Part #
C2PRSS	Stainless Steel	0.11	3547032

Drop Wire Hook

- Attaches at the home or building with 1/4" hardware (not provided)
- Loop drop wire clamp bail over ram's horn hook



Mfr. Model #	Material	Carton Qty	BOR Part #
CRHH	Steel	200	3547033

Drop Clamp for Flat Fiber Cable

Drop wire clamp for attaching flat fiber type communications cable to hooks, or span clamps that are installed on buildings, poles or at mid-span.

- Body and serrated shim are 304 stainless steel; wire bail is 430 stainless
- Strength exceeds the rated tensile strength of the applicable cable
- Designed to fit various brands of flat fiber cable
- Black powder coated components for identification



Mfr. Model #	Material	Carton Qty	Shim Style	Weight Ea	BOR Part #
FFD12SS	Stainless Steel	25	Serrated	1.6 oz	3547034

Wrenchable P House Hook

With wood screw thread for attachment at home or building. Loop drop wire clamp bail over 'P' section of house hook.

- Uses 7/16" driver to install



Mfr. Model #	Length	Screw Thread	Material	Carton Qty	BOR Part #
PSC2170096	4-1/2"	#14	Steel	100	3546970
PSC2170095	3-3/4"	#14	Steel	200	3547035

Messengered Coax Drop Clamp

Attaches to hooks and span clamps to secure ends (pole, building or mid-span) of CATV messengered service drops.

- Clamp — 5052-H32 aluminum
- Clamp bail wire — 430 stainless



Mfr. Model #	Material	Weight Ea	BOR Part #
CMDCA	Aluminum	.05 lbs	3382270

Drop and House Hooks

Used to secure drop cable or steel messenger wire at the pole or house.

- Constructed of high quality steel, mechanically plated for maximum corrosion protection
- Drop wire hook is shaped for attaching drop wire clamps or drop wire to house



Mfr. Model #	Description	Standard Pack Quantity	Carton Weight	BOR Part #
SI-1130	Drop Wire Hook	400	7 lbs	1078511
SI-0010	House Hook, P Type, 3-3/4"	100	7.5 lbs	3017318
SI-0010CW	House Hook, Wrenchable P Type, 4-1/2"	100	6.4 lbs	3381483
SI-0012	House Hook, T Type, 3 Hole	100	10 lbs	3521330

Wirevise Connectors

Used to deadend galvanized steel messenger mid-span of a service drop.

- Rated to hold a minimum of 90% of RBS wire specified
- Designed to support both ends of self-supporting multi-pair drop wire that uses a solid galvanized steel messenger wire that is integrated into the jacket in a Figure-8 configuration



Mfr. Model #	Wire Range	Overall Length	Cartridge Length	Bail Width	BOR Part #
5056	.062-.100, 16,15,14,13 USSWG	5.5"	1.55"	1.60	1293492
5058	.091-.114, 13, 12 USSWG	5.5"	1.47"	1.60"	1293495
5062	.120-.135, 11 USSWG, 10 USSWG	7.70"	2.46"	1.50"	1293490

Drop Wire Clips

Convenient clips for drop wire installations.

- Plated steel E Drop Wire Clips are used to secure drop wire to wood or masonry surfaces
- Aluminum SC Drop Wire Clips are used to loop and hold a drop wire to itself for snub attachments
- SC clips fasten to drop wire easily with a pair of pliers



Mfr. Model #	Description	Standard	Cable Size	Inner Pack Quantity	Standard Pack Quantity	Carton Weight	BOR Part #
RE2	E Drop Wire Clip, 2 Pair	Bellcore standard 7590	.200" x .390"	—	3000	28 lbs	2755687
RE6	E Drop Wire Clip, 6 Pair	Bellcore standard 7590	.250" x .550"	50	900	15 lbs	2755633
SI-0987	E Drop Wire Clip, 2 Pair	Bellcore standard 7590	.200" x .390"	50	3000	28 lbs	1078512
SI-0984	SC Drop Wire Clip	Bellcore standard 7226	6 Pair	—	1000	17 lbs	3521324
SI-0985	SC Drop Wire Clip	Bellcore standard 7226	2-3 Pair	—	1000	7.5 lbs	3521325
SI-0986	SC Drop Wire Clip	Bellcore standard 7226	1-2 Pair	—	1000	6 lbs	3521326

Drop Clamps

Used to strain relieve telephone drop wire and support messenger drop clamp between the pole, mid-span and house.

- Drop Wire Clamp is used to strain relieve telephone drop wire (1 to 6 pairs; is removable)
- Fiber Drop Clamp is used to strain relieve fiber drop cable
- Messenger Drop Clamps are used to support messenger drop clamp between the pole, mid-span and house
- Messenger Drop Clamps accept RG 6, RG 6Q, RG 11 and RG 59



Mfr. Model #	Description	Standard Pack Quantity	Carton Weight	Material	BOR Part #
SI-0956	Drop Wire Clamp	250	23 lbs	Premium Stainless Steel Body And Shim	150128
SI-0972SBC	Fiber Drop Clamp	250	23 lbs	Premium Stainless Steel Body And Shim	3521318
SI-0972	Fiber Drop Clamp	100	14 lbs	Premium Stainless Steel Body And Shim	3396294
SI-0972SBL	Fiber Drop Clamp	250	23 lbs	Premium Stainless Steel Body And Shim	3226507
SI-0969	Messenger Drop Clamp	500	25 lbs	Stainless Steel Wire, Aluminum Body	3521327
SI-0969INS	Messenger Drop Clamp with Insulator	100	7 lbs	Stainless Steel Wire, Aluminum Body	3521328
SI-0969INS1	Messenger Drop Clamp Insulator	2000	28 lbs	Stainless Steel Wire, Aluminum Body	3521329

Duct and Conduit

Galvanized Rigid Steel Conduit

Furnished in 10 foot lengths with both ends threaded, with coupling screwed in one end.

- Hot dipped galvanized or metallized



Mfr. Model #	Size	Length	BOR Part #
2GRC	2"	10'	162399
4GRC	4"	10'	162368

Carlton® Liquid-Tight Flexible Nonmetallic Conduit

Lightweight and easy to install, yet provides excellent cable protection.

- Lightweight for easy handling, transportation and installation
- Crush-, abrasion- and strain-resistant
- Smooth interior, ideal for pulling cable — no jagged edges
- Maintains internal dimension even in tight-radius bends
- cULus listed



Mfr. Model #	Description	BOR Part #
15008-100	Carlton Liquid-Tight Flexible Nonmetallic Conduit, Gray, 1" Trade Size, 100' Coil	2390371

Carlton® Schedule 40 PVC Conduit Elbows

Nonmetallic conduit elbows with plain or belled end.

- Gray PVC construction
- UL listed



Mfr. Model #	Bend Radius	Angle	Trade Size	End Style	BOR Part #
UA9AD	Standard	90°	1/2"	Plain	968217
UA9ADB	Standard	90°	1/2"	Belled	106376
UA9AE	Standard	90°	3/4"	Plain	104261
UA7AD	Standard	45°	1/2"	Plain	104384
UA7ADB	Standard	45°	1/2"	Belled	104047
UA7AE	Standard	45°	3/4"	Plain	104390
UA7AG	Standard	45°	1-1/4"	Plain	104400
UA9DJ	24"	90°	2"	Plain	173523

Carlton® PV Mold Nonmetallic Pole Riser System

Designed to protect communications and power cables installed on poles.

- Heavy-wall Schedule 40 construction
- 2" trade size

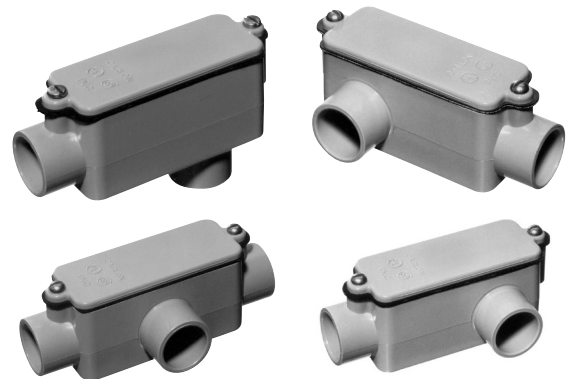


Mfr. Model #	Description	BOR Part #
59011N	Carlton PV Mold Riser Pole System, 2"	103863

Carlton® Nonmetallic Conduit Bodies

With unthreaded hubs and textured lids with foam-in-place gaskets.

- For use with Schedule 40 and 80 PVC conduit
- UL listed, CSA certified



Mfr. Model #	Configuration	Trade Size	Capacity	BOR Part #
E984FCAR	Type LL	1"	12 cu. in.	105196
E985F	Type LR	1"	12 cu. in.	105231
E986D	Type LB	1/2"	4 cu. in.	106307
E986F	Type LB	1"	12 cu. in.	105154
E986G	Type LB	1-1/4"	32 cu. in.	106311
E983F	Type T	1"	12 cu. in.	105261

PV-MOLD® Nonmetallic Pole Riser System — Heavy Duty Schedule 40

A nonmetallic pole riser system designed to protect communications power cable installed on poles.

- Designed in accordance with NEMA TC-19 specifications
- Ultraviolet, cold temperature and corrosive atmosphere resistant
- Schedule 40 wall meets Schedule 80 PVC conduit impact requirements per NEMA TC-19
- No grounding required
- Belled end fits over each added section or conduit
- Requires no maintenance
- PV-Mold acts as an insulator against electrical shock
- Interchangeable parts and accessories to match the needs of specific requirements
- Flanged overall length, including bell is 10 Feet
- Impact @ OC 20 lb Tup (ft.-lbs): 100
- Impact @ 23C 20 lb Tup (ft.-lbs): 300



Prime Conduit, Inc.

Mfr. Model #	Size	Std. Qty.	Std. Qty. Wt.	Depth of Bell (min.)	BOR Part #
59010N	1-1/2"	165	950 lbs	2"	175676

Schedule 40 PVC Rigid Nonmetallic Conduit, 10'

- Heavy Wall EPC
- Listed for underground applications encased in concrete or direct burial
- Also for use in exposed or concealed applications aboveground
- Sunlight resistant
- Rated for use with 90°C conductors
- Superior weathering characteristics
- Made in USA
- Integral Bell Dimensions meet the requirements of UL651
- ETL Listed to UL651 in compliance with the NEC



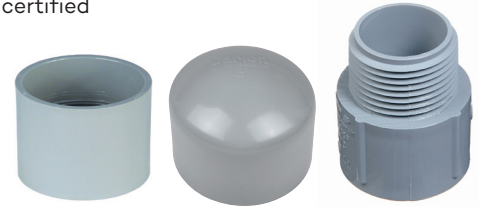
Prime Conduit, Inc.

Mfr. Model #	Trade Size	Std. Crte Qty.	Wt. Per 100'	O.D. (Avg.)	Wall (Min.)	BOR Part #
49005010	1/2"	6000'	17	0.840	0.109	2244068
49007010	3/4"	4400'	23	1.050	0.113	2243870
49008010	1"	3600'	34	1.315	0.133	2243871
49009010	1-1/4"	3300'	46	1.660	0.140	2243872
49010010	1-1/2"	2250'	55	1.900	0.145	2244067
49011010	2"	1400'	73	2.375	0.154	2243873
49012010	2-1/2"	930'	124	2.875	0.203	2243875
49015010	4"	570'	232	4.500	0.237	2243878
49017010	6"	260'	409	6.625	0.280	2243881

Carlton® Nonmetallic Conduit Couplings and Adapters

Rugged PVC construction

- For use with Schedule 40 and 80 PVC conduit
- UL listed, CSA certified



ABB

Mfr. Model #	Description	Trade Size	BOR Part #
E943D	Male Terminal Adapter	1/2"	104723
E943F	Male Terminal Adapter	3/4"	104741
E943J	Male Terminal Adapter	2"	104787
E943N	Male Terminal Adapter	4"	104839
E940D	Standard Coupling	1/2"	104445
E940E	Standard Coupling	3/4"	104450
E940F	Standard Coupling	1"	104456
E940J	Standard Coupling	2"	104467
E940N	Standard Coupling	4"	104497
E940R	Standard Coupling	6"	104506
E958F	End Cap	1"	104679

HDPE Conduit

Blue Diamond HDPE products protect many of the largest fiber optic networks in the United States.

- Easy installation, HDPE is the preferred material for HDD because of its long continuous lengths and high pull strength
- A wide temperature range for installation, from -20°C to 90°C operating temperature for cables
- A low coefficient of friction (20% lower than PVC) to allow for long cable pulls
- Tough, durable and a life expectancy well over that of the fiber/cable inside
- Replace or repair fiber/cable lines without digging or trenching
- Chemical and corrosion resistance
- Blue Diamond complies with RUS/USDA standards, meets Buy America Requirements and all national specifications including ASTM, NEMA and UL



BLUE DIAMOND
Industries, LLC

Mfr. Model #	Description	BOR Part #
BDI095OR-T18W-T10	3/4" Schedule 40, Orange, 18 GA Tracer Wire, #1000 Pull Tape	3387731
BDI134OR	1-1/4" SDR 13.5 Orange, Empty	3458367
BDI214OR	2" SDR 13.5 Orange, Empty	3381464
BDI414OR	4" SDR 13.5 Orange, Empty	3381465
BDI614OR	6" SDR 13.5 Orange, Empty	3546502

Fiber Optic Solutions Construction

Duct and Conduit

1" Type LB PVC Conduit Body

CANTEX 1" Conduit Body Type LB provides pull, splice and tap access for conductors in a conduit system along with a change in direction.

- Provides a 90° turn in conduit run
- Made from non-conductive PVC
- Will not rust or corrode
- Includes lid, gasket and screws
- For use with Schedule 40 and 80 conduit
- Made in USA



Mfr. Model #	Description	BOR Part #
5133665	UL LISTED QCMZ, 1.313" Hubs, 90° Turn, 11.8 Cubic Inches, 3-Wire Fill for #6 or Smaller, Neoprene Gasket, Zinc Plated Steel Screws	3326855

House Risers

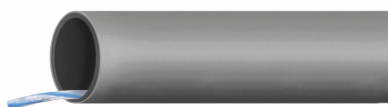
Protect your fiber from the ground to the NID.

- Variety of options
- Curved and notched
- Slit back option for easy cable insertion
- Low cost job "insurance" for delicate fiber installations



Mfr. Model #	Description	Standard Pkg.	BOR Part #
119/122 Series (7/8" diameter)			
12-119	5' Straight with Offset and Notch, 2 Clamps	30	167602
219/222 Series (1-1/4" diameter)			
12-219	5' Straight with Offset and Notch, 2 Clamps	15	167575

ConQuest® Empty Conduit



Mfr. Model #	Description	BOR Part #
CX3199984/11	3/4", SDR 13.5, Gray, with Pull Rope	3487751

FiberRunner® 6" x 4" QuickLock™ Coupler

Simplify your cable routing with our 6" x 4" coupler, ensuring fast and secure connections without the need for installation tools.



Mfr. Model #	Description	BOR Part #
FRBC6X4LYL	Coupler, 6" x 4" (150mm x 100mm), FiberRunner, YL	3638048

FiberRunner® 6" x 4" Hinged Channel

Ensure efficient cable management in high-density environments with our 6" x 4" channel. Its spacious design reduces signal loss due to bends, making it ideal for data centers.



Mfr. Model #	Description	BOR Part #
FR6X4YL10	Channel, 6x4 (150mm x 100mm), 10', FiberRunner, YL	3629674

FiberRunner® 4" x 4" QuickLock™ Coupler

Achieve fast, secure cable routing with our 4" x 4" coupler. It ensures quick, toolless connections for secure cable management in data centers and telecommunication offices.



Mfr. Model #	Description	BOR Part #
FRBC4X4LYL	Coupler, 4x4 (100mm x 100mm), FiberRunner, YL	3555470

Corrugated Loom Slit Wall Tubing

Easily shield cables from damage with our corrugated loom slit wall tubing, provides quick and easy installation for wire harnesses, with additional options for outdoor and electric vehicle use.



Mfr. Model #	Description	BOR Part #
CLT150F-X4	Corr. Loom Tubing Slit, 1.50" (38.1mm) X 10' (3.0m), Yellow	3652097

FiberRunner® 6" x 4" Fast-Snap™ Hinged Cover

Protect and manage your high-density cabling with our 6" x 4" snap-on hinged cover. Easy to install and access, it ensures cables are secure and reduces signal loss from excessive bends.



PANDUIT®

Mfr. Model #	Description	BOR Part #
FRHC6YL10	Channel Cover, Hinged, Snap-On, 6x4 (150mm x 100mm), 10', FiberRunner, YL	3629675

FiberRunner® 2-Port Spillout

Simplify cable routing with our 2-port spillout. Perfect for 4" x 4" fittings, it offers a secure and efficient way to manage cables through split corrugated tubing.



PANDUIT®

Mfr. Model #	Description	BOR Part #
FRIDT4X4LYL	Fitting, 2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing, YL	3652109

FiberRunner® QuickLock™ Existing Threaded Rod Bracket

Optimize your setup with our existing threaded rod bracket. Effortlessly install on existing threaded rods for stable and organized cable routing. Due to bends, making it ideal for data centers.



PANDUIT®

Mfr. Model #	Description	BOR Part #
FR6TRBE12	Bracket, Existing 1/2" Thr. Rod QuickLock for 4x4 and 6x4 FiberRunner	3652107

FiberRunner® Spill-Over Junction Cover

Effortlessly manage cables with our spill-over junction cover. Its hinged design allows for quick and easy access to add or remove cables, ensuring seamless cable management.



PANDUIT®

Mfr. Model #	Description	BOR Part #
FRSPJC46LYL	Spill-Over Junction with 4x4 Exit Cover, 6x4 Channel	3652110

FiberRunner® Spill-Over Fitting

Achieve fast, secure cable routing with our 4" x 4" coupler. It ensures quick, toolless connections for secure cable management in data centers and telecommunication offices.



PANDUIT®

Mfr. Model #	Description	BOR Part #
FRSPJ4X4LYL	Spill-Over Junction Fitting with 4x4 Exit	3593569

FiberRunner® Wall Mount L Bracket

Attach 4" x 4" or 6" x 4" channels to walls or equipment racks with ease. Pre-assembled slide clamps ensure quick and secure installation.



PANDUIT®

Mfr. Model #	Description	BOR Part #
FR6LB	Bracket, "L" Wall Mount for 4x4 and 6x4 FiberRunner®	2330919

Duct and Conduit

FiberRunner® Horizontal Tee

Create seamless 90° horizontal branches with our 12" x 4" horizontal tee. Versatile spillout options ensure easy cable management and tool-free installation.

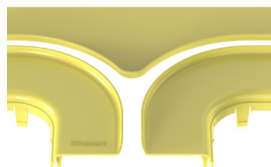


PANDUIT®

Mfr. Model #	Description	BOR Part #
FRTSC6LYL	Fitting, Horizontal Tee, 6x4 (150mm x 100mm), FiberRunner, YL	3629678

FiberRunner® Horizontal Tee Split Cover

Effortlessly manage your cables with our horizontal tee split cover. Its snap-on feature ensures toolless installation, creating a smooth opening for easy cable access.



PANDUIT®

Mfr. Model #	Description	BOR Part #
FRTSC6LYL	Split Cover, Horizontal Tee, 6x4 (150mm x 100mm), FiberRunner, YL	3648100

FiberRunner® End Cap

Cap off unused ends of cable pathways for a clean, professional appearance while preventing dust and debris from entering the cable pathways and accidental damage with our end cap.



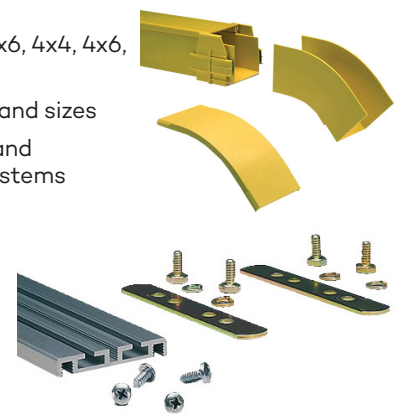
PANDUIT®

Mfr. Model #	Description	BOR Part #
FREC6X4LYL	Fitting, End Cap, 6x4 (150mm x 100mm), FiberRunner, YL	3652108

Fiberguide® Optical Raceway Solutions

Fiberguide is a comprehensive raceway solution designed to protect and route fiber optic patch cords and multi-fiber cable assemblies to and from fiber splice enclosures, fiber distribution frames and fiber optic terminal devices.

- All components provide maximum fiber protection
- Minimum 2-inch bend radius throughout
- Wide variety of components for system flexibility
- Supports systems of 400 to 25,000 patch cords
- Available sizes: 2x2, 2x6, 4x4, 4x6, 4x12, 4x24
- Variety of exit styles and sizes
- Vertical and on-demand fiber management systems



COMMScope®

Mfr. Model #	Description	BOR Part #
FGS-HASK-C	Aluminum Track Support, 6'	2809905
FGS-HLDR-5/8	Ladder Rack Bracket Kit, 5/8 Rod	2809963
FGS-HMEC-A	End Cover Kit, 4x4	2809969
FGS-HMEC-C	End Cover Kit, 2x2, Yellow	2809971
FGS-HNTR-5/8	New Threaded Rod Bracket Kit, 5/8"	2809991
FGS-HWMB-C	Vertical Slotted Straight Universal Mounting Brackets, 2x2, Kit of 5 pairs	2810064
FGS-KTW1-JA	Vertical Duct Kit, 2x2, Yellow	3496075
FGS-MCDS-AB	Downspout Cover, 4x4, Yellow	2810147
FGS-MD4A-C	Elbow Kit, 45° Down, 2x2, Yellow	2810149
FGS-MD9A-C	Elbow Kit, 90° Down, 2x2, Yellow	3496076
FGS-MD9E-A	Elbow Kit, 90° Down, 4x4, Yellow	3496077
FGS-MEXP-A/B/F	Express Exit Kit, 2x2, Yellow	2810196
FGS-MFAW-A	Snap-Fit Junction, 4x4, Yellow	2810202
FGS-MH4A-C	Elbow Kit, 45° Horizontal 2x2, Yellow	3496082
FGS-MH4E-A	Elbow Kit, 45° Horizontal 4x4, Yellow	3496084
FGS-MHRT-A	Horizontal Tee, 4x4, Yellow	2810241
FGS-MIDY-50F	Flex Tube, 2" x 50'	3445968
FGS-MJWR-C	Junction Kit, 2x2	2810295
FGS-MSDS-C	Downspout Kit, 2x2, Yellow	2810312
FGS-MSHA-C	Horizontal Straight Section with Cover, 2x2, Yellow	2810313
FGS-MSHS-A	Horizontal Straight Section with Cover, 4x4, Yellow	2810321
FGS-MSSC-A	Snap-on Cover for Horizontal Straight Section, 4x4, Yellow	2810343
FGS-MU4A-C	Elbow Kit, 45° Up, 2x2	2810359
FGS-MU9A-C	Elbow Kit, 90° Up, 2x2	3450651
FGS-SD9E-A	Elbow Cover, 90° Down, 4x4, Yellow	3496086
FGS-SH4E-A	Elbow Cover, 45° Horizontal, 4x4, Yellow	3496087

Poly Plug™

The Poly Plug™ is designed to seal standard ducts, innerducts or terminators from the damaging and expensive effects of weather, job site debris, and animal incursion.

- Tapered and scalloped walls for a tight and secure fit
- Easy installation and removal without additional tools
- Highly flexible material for easy installation by hand
- Constructed of long-lasting material
- One size to fit multiple-size conduit



Mfr. Model #	Description	Case Quantity	BOR Part #
2250-010	POLY PLUG, 1"	100	3626178
2250-012	POLY PLUG, 1-1/4"	100	3626179
2250-015	POLY PLUG, 1-1/2"	100	3626180
2250-020L	POLY PLUG, 2"	100	132730
2250-025	POLY PLUG, 2-1/2"	100	132732
2250-030	POLY PLUG, 3"	80	132733
2250-035	POLY PLUG, 3-1/2"	80	3626181
2250-040	POLY PLUG, 4"	50	132734

Kwikie™ Blank Duct Plug

The Kwikie plug installs tightly into conduit, creating a secure seal from unwanted water, sediment, or animal intrusion.

- When the thermoplastic elastomer gasket is expanded, it creates a water, air, and rodent resistant seal – protecting the conduit from damaging environmental conditions
- Constructed of non-metallic, corrosion-resistant materials for a long-lasting and cost-effective plug
- Requires no additional tools for quick and easy installation
- Install in PVC, HDPE, EMT, and corrugated conduit for versatility
- Two rope-tie points built into the plug for installation with mule tape or pull line for a secure seal
- Available in a variety of sizes and variations



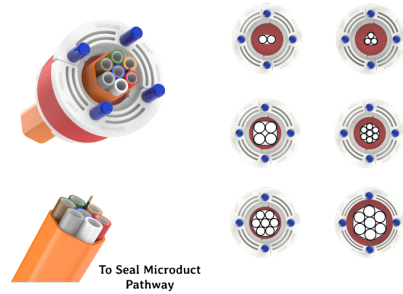
Mfr. Model #	Description	Case Quantity	Variation	JackMoon® Equivalent	BOR Part #
5120-10	KWIKIE™ BLANK DUCT PLUG, LOOP NUT, 1.00"	50	With a Loop Nut	JM-BLA-10D104U	3489296
5120-12	KWIKIE™ BLANK DUCT PLUG, LOOP NUT, 1.25"	50	With a Loop Nut	JM-BLA-12D148U	3489297
5120-20	KWIKIE™ BLANK DUCT PLUG, LOOP NUT, 2.00"	50	With a Loop Nut	JM-BLA-20D236U	3248647
5120-40L	KWIKIE™ BLANK DUCT PLUG, LOOP NUT, 4.00"	30	With a Loop Nut	JM-BLA-40D402U	132720

Duct and Conduit

Wedge Seal™ Entry Seals for Microduct Pathway

Wedge Seal™ Entry Seals for Microduct Pathway systems are designed to seal various shapes and sizes, including the common 2-way oval, 3-way triangle, 4-way square, and 7-way or 19-way hexagon configurations.

- Water, air and corrosion resistant
- Split design for retrofit installation around inplace pathway
- Different port shapes seal specific microduct pathway configurations
- Ideal for datacenters and telecom projects running microduct pathway
- Easy and fast to install
- Stainless steel fasteners for installation with simple hand tools, saving time and costs in labor
- Professional and clean sealing method



Mfr. Model #	Description	Conduit Inner Diameter	Port Diameter Range	Port Shape	BOR Part #
7140-02-12	SIMPLEX ENTRY SEAL, 4.00"	3.92" - 4.25"	1.08" - 1.20"	Oval 2-Way	3646070
7140-03-12	SIMPLEX ENTRY SEAL, 4.00"	3.92" - 4.25"	1.12" - 1.26"	Triangle 3-Way	3646071
7140-04-18	SIMPLEX ENTRY SEAL, 4.00"	3.92" - 4.25"	1.63" - 1.87"	Square 4-Way	3646072
7140-06-13	SIMPLEX ENTRY SEAL, 4.00"	3.92" - 4.25"	1.05" - 1.30"	Hexagon 7-Way	3646073
7140-06-18	SIMPLEX ENTRY SEAL, 4.00"	3.92" - 4.25"	1.62" - 1.81"	Hexagon 7-Way	3646074
7140-06-22	SIMPLEX ENTRY SEAL, 4.00"	3.92" - 4.25"	2.01" - 2.28"	Hexagon 7-Way	3646075

Wedge Seal™ Entry Seals

Wedge Seal™ Entry Seals are durable plugs with multiple ports for sealing cables, fiber, or innerduct within conduit.

- Water, air and corrosion resistant
- Can be easily installed with retrofit
- Excellent cable support and organization
- Made from recyclable materials
- Ideal for datacenters, telecom or electrical manholes
- Easy and fast to install
- Professional and clean sealing method
- Fast lead times from California and Tennessee



Mfr. Model #	Description	Conduit Inner Diameter	Port Diameter Range	Number of Ports	JackMoon® Equivalent	BOR Part #
7140-135	SIMPLEX ENTRY SEAL, 4.00"	3.92" - 4.39"	1.18" - 1.37"	1	JM-SIM-40S136S	3646076
7340-165	TRIPLEX ENTRY SEAL, 4.00"	3.95" - 4.15"	1.63" - 1.67"	3	JM-TRI-40B167S	3623133
7440-105	QUADPLEX ENTRY SEAL, 4.00"	3.95" - 4.15"	1.03" - 1.07"	4		3646077
7440-130	QUADPLEX ENTRY SEAL, 4.00"	3.95" - 4.15"	1.28" - 1.32"	4	JM-QUA-40Q136SG	3646078
7460-105	QUADPLEX ENTRY SEAL, 6.00"	5.96" - 6.15"	1.03" - 1.07"	4		3646079

JackMoon® Fiber Optic Simplex Plug

The Fiber Optic Simplex Plug features an expandable gasket that conforms to and contracts around the fiber optic cable, preventing the incursion of water, air, and dust into the duct system or building.

- When the thermoplastic elastomer gasket is expanded, it creates a water and air-resistant seal - protecting datacenters from damaging environmental issues
- Constructed entirely of non-metallic, corrosion-resistant material, these plugs are long-lasting and cost-effective
- Designed to split apart for easy retrofit around in-place cables

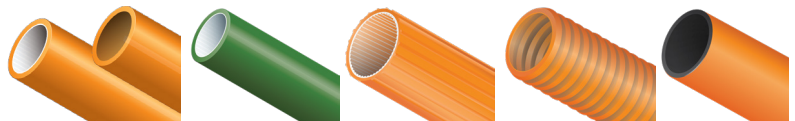


Mfr. Model #	Description	Case Quantity	Port Diameter Range	Port Shape	BOR Part #
7110-027-035	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 1.00"	20	0.27" - 0.35"		3646064
7110-035-057	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 1.00"	20	0.35" - 0.57"	JM-SIM-10S057SB	3512087
7110-051-071	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 1.00"	20	0.51" - 0.71"	JM-SIM-10S070SB	3646065
7112-035-057	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 1.25"	20	0.35" - 0.57"	JM-SIM-12S057SB	3341003
7112-051-071	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 1.25"	20	0.51" - 0.71"	JM-SIM-12S070SB	3584445
7112-071-090	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 1.25"	20	0.71" - 0.90"	JM-SIM-12S090SB	3617913
7120-008-014	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 2.00"	20	0.08" - 0.14"	JM-SIM-20S020SB	3646066
7120-015-024	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 2.00"	20	0.15" - 0.24"	JM-SIM-20S020SB	3489301
7120-025-051	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 2.00"	20	0.25" - 0.51"	JM-SIM-20S043SB	3512086
7120-052-075	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 2.00"	20	0.52" - 0.75"	JM-SIM-20S070SB	3646067
7120-076-100	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 2.00"	20	0.76" - 1.06"		3646068
7120-090-110	JACKMOON® FIBER OPTIC SIMPLEX PLUG, 2.00"	20	0.81" - 1.12"	JM-SIM-20S110SB	3646069

SDR 13.5 HDPE Conduit

High Density Polyethylene (HDPE) conduits for standard installation applications such as standard underground, as innerducts in existing conduits, or corrugated products to use in congested areas. HDPE is a flexible and resilient material. It provides superior resistance to natural or mechanical damage, and has excellent low temperature properties to handle cold weather.

- HDPE smooth wall conduit size available from 1/2"-12". Wall sizes SDR, SCH, SIDR, True SIDR. Multiple colors.
- Ribbed in/out available 1"-1 1/2". Wall type True SIDR.
- Corrugated used for short runs and flexibility. 1"-2" sizes available.
- Coextruded conduit provides visual utility, 1"-6" sizes. Wall type SDR, SCH.
- Stick sizes 2"-6" are available in Grey, Red or Black. 8" Sticks are only available in Black. Wall sizes SDR, SCH.
- UL 651A sizes available 1/2"-6". Wall sizes EPEC, SCH



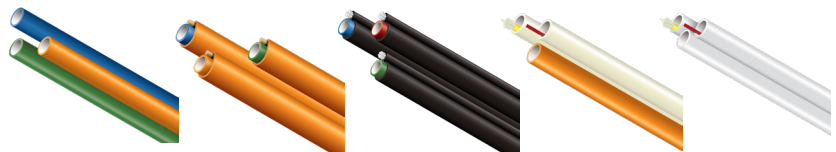
Mfr. Model #	Description	Weight (lb/ft)	Nominal OD (in.)	Bend radius supported (in)	Reel Length (ft)	BOR Part #
10000508	SDR 13.5 3/4 org w/ tape	.11	1.05	10	5,000	3246693
10004432	SDR 13.5 1" org w/ tape	.167	1.315	13	5,000	3246731
10005562	SDR 13.5 1.25" org w/ tape	.263	1.66	17	8,000	3578802
10000694	SDR 13.5 1.5" org w/ tape	.345	1.9	19	4,000	3246698
10004504	SDR 13.5 2" org w/ tape	.528	2.375	24	2,500	3246737

Duct and Conduit

Microduct

MicroDucts are small diameter conduits ranging from 5-27mm OD that provide a pathway for fiber cables. They are a natural evolution of standard conduits as space in networks is a premium and as new technologies develop, they typically decrease in size.

- HDPE MicroDucts available from 5mm OD – 27mm OD, coextruded with Silicore to reduce friction
- Locatables, MicroDucts with a location wire for easy identification in the ground. 7mm-27mm OD
- Figure 8- Available in (OD/ID) 12.7/10mm and 18/14mm. industry standard support messenger makes the installation easy and fast
- Riser MicroDucts are made from fire retardant materials, available in 5mm-27mm OD. Available empty or with either a single fiber cord (cable) or pull string pre-installed
- Plenum-rated MicroDucts available from 5mm OD – 27mm OD, fire retardant, specific for MDU needs

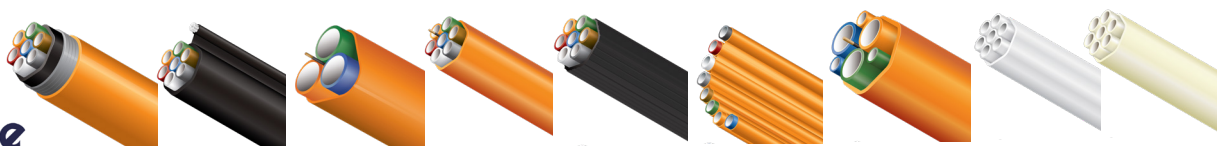


Mfr. Model #	Description	nominal OD (in)	weight (lb/ft)	bend radius supported (in)	BOR Part #
10005871	12.7/10 micro	.5	.032	5	3640037
10013305	14/10 micro	.55	.05	6	3689513
10011591	18/14 micro	.71	.066	7	3640038

FuturePath

FuturePath is two or more MicroDucts bundled under an oversheath. Both products can be installed using standard. Outside Plant (OSP) installation methods in common applications.

- FuturePath- 2way-24way. Multiple configurations for each bundle
- Flex- MicroDucts joined by a thin web of HDPE, allowing for easy separation and routing of individual ducts. Configurations: 8-way, 6-way, 4-way or 2-way
- Hybrid- FuturePath configuration combining popular MicroDuct sizes with common Smoothwall duct sizes. 3way-15way
- Jumbo- FuturePath configuration consisting of 2, 3, or 4 conduits, available in a variety of sizes and wall types
- Figure 8- Constructed with factory bundled MicroDucts and a polyethylene oversheath that incorporates a 1/4" Extra High Strength Galvanized Steel Strand. 2,4,7 way
- Armored- Configurations: 19-way, 7-way or 4-way. Zetabon steel armor for protection in harsh environments or against rodents
- Aerial- Configurations: 7-way, 4-way, 3-way, 2-way. External ribs for easy gripping of lashing wire
- Riser- Configurations: 24-way, 19-way, 12-way, 7-way, 4-way, 3-way or 2-way. MicroDucts available from 5mm to 12.7mm and factory bundled with an oversheath. Multiple pathways in place for future growth
- Plenum- Plenum- MicroDucts available from 5mm to 12.7mm and factory bundled with an oversheath. Configurations: 24-way, 19-way, 12-way, 7-way, 4-way, 3-way. ETL Listed to UL/CSA Specifications



Mfr. Model #	Description	nominal OD (in)	oversheath (in)	weight (lb/ft)	bend radius supported (in)	reel specs (in)	recommended coupler	BOR Part #
10010408	4way 14/10	1.47	.07	.32	13	83x46 5000ft	14mm straight coupler	Call
10004560	4way 12.7/10	1.34	.07	.236	13	90x46 6500ft	12.7 mm straight coupler	Call
10012633	7way 14/10	1.77	.05	.465	18	96x46 5000ft	14mm straight coupler	Call

Couplers

To complete your installation, Dura-Line offers a complete line of couplers of all duct types

- All Dura-Line couplers provide an air and water-tight connection where the cable is most vulnerable, at the joint
- UV stabilized
- O-ring seal
- Shur-lock- Great for HDPE and PVC duct
- Can be used for joining dissimilar conduits to HDDPE and PVC
- Redi-lock- perfect for joining lengths of HDPE sticks
- Split-lock- best for temporarily coupling conduits; reusable



Mfr. Model #	Description	O-Ring	UV Stabilized	Fungus Resistant	Chemical resistant	BOR Part #
20000118	1" Shur-Lock II	*	Resistant			3246812
20000123	2" Shur-Lock II	*	Resistant			3246815
20000256	6" Shur-Lock II	*	Resistant			3246830
20005477	2" Redi Lock	*	*			
20005479	3" Redi-Lock	*	*			3580229
20003907	1" Split Lock		*	*	*	3527146
20003910	2" Split-Lock		*	*	*	3447965
20005069	12mm Micro Coupler (12/10)					3640041
20003430	14mm Micro Coupler (14/10)					3640040
20001518	18mm Micro Coupler (18/14)					3386902
20001484	12mm Micro End Cap					3640043
20003431	14mm Micro End Cap					3640042
20001485	18mm Micro End Cap					3640045

Lubricants

Aids in cable placement.

- Formulated to meet specific requirements
- Wide range of polymer and silicone-modified formulations in gel, creamy gel, or pourable forms
- UL listed
- Available in Summer and Winter grades
- Lubaduk- fewer pull boxes needed, increased pull lengths
- F100i- effective for placing larger cables in short runs
- F150i- effective for placing high voltage power cables
- F200i- best for large cables and long difficult pulls
- F300i- effective for all types of high voltage power cables, conventional copper telecom cables
- AT-500i- specially formulated for all air-assisted cable placement



Mfr. Model #	UL listed	Not displaced by cables	Slow drying	Compatible with all cables/conduits	Winter grade	BOR Part #
Lubricants F-100i - F200i	*	*	*	*		Call
F-300i		*	*	*		Call
AT-500i			*	*		Call
Lubaduk	*				*	Call

Grounding and Bonding

Blackburn® Parallel Groove Connector Jumper Clamp

Easy installation with a secure fit.

- Made of copper alloy for high strength and durability
- Silicon-bronze hex-head washer bolt ensures a super-secure fit
- Parallel-groove design eliminated the need to remove the bolt for installation
- For use with aluminum, Amerductor or galvanized steel strand to copper or copper-bonded steel wires
- Wire range for plated groove: #6 AWG to 1/0 ACSR
- Wire range for copper groove: #8 AWG solid to 2/0 AWG stranded



Mfr. Model #	Description	BOR Part #
K1	Copper Type K Jumper Clamp	142585

Blackburn® HLC™ Hot-Line Clamp

With protected threads.

- Eyebolt coated with grease to ensure easy turning in all weather conditions
- Bronze construction for copper-to-copper applications
- 35kV rated
- Wire range for main and tap: #8 AWG solid to 2/0 AWG stranded
- UL listed, CSA certified



Mfr. Model #	Description	BOR Part #
HLC2108	Blackburn HLC Hot-Line Clamp for #8 Solid to 2/0 Stranded	441742

Blackburn® Type L Copper Mechanical Lug

Single-conductor, single-hole mount.

- Cold forged from pure electrolytic copper with 99% conductivity
- Screwdriver slot-head screw
- Conductor range: #14 AWG solid to #4 AWG stranded
- UL listed, CSA certified



Mfr. Model #	Description	BOR Part #
L70	Blackburn Type L Copper Mechanical Lug for #14 Solid to #4 Stranded	142283

Blackburn® Type H High-Strength Split-Bolt Connector

For copper-to-copper connections.

- Hex-design bolt and nut made of high-strength, corrosion-resistant bronze alloy
- Copper alloy pressure bar
- Tested and listed to UL486C, UL467 for grounding and for direct burial
- Conductor range for equal main and tap: #6 AWG solid to #10 AWG solid (will accommodate three wires of maximum size)
- Conductor range for minimum tap with one maximum main: #16 AWG stranded
- UL listed, CSA certified



Mfr. Model #	Description	BOR Part #
6H3	Blackburn Type H Split-Bolt Connector, #6 Solid to #10 Solid	142456

Scotchlok™ Shield Bond Connectors

- Designed to make a stable and low resistance electrical connection between communications cables of .80" diameter or less (100 pair, 24 ga. and under) and a conductor such as a strap, wire or braid



CORNING

Mfr. Model #	Description	BOR Part #
80610414866	4460-D Shield Bond Connector	167593
80610844443	4460-D/FO Shield Bond Connector	167692
80611316417	4460-DS Shield Connector With Pair Saver	3387239

Type GKA Mechanical Connectors for Copper

Mechanical connector for grounding and bonding termination applications. One-piece body construction provides mechanical integrity in an underground environment. Supplied with stainless steel headless screw.

- Rated for Direct Burial in earth or concrete
- UL467 Listed for US and Canadian markets
- Cable Range: 14 AWG–4 AWG



Mfr. Model #	Length	Width	Height	J Dia	Hole Size	Overall Length	BOR Part #
GKA4C	.46"	.54"	.71"	5/16"–24" (slot)	.28"	1.13"	424200

#6 AWG Insulated and Bare Flexible Harnesses

- For bonding and grounding in pedestal new construction and retrofitting
- Standard lengths all RUS Listed
- Ring terminals at both ends



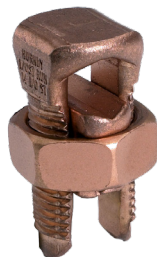
Mfr. Model #	Length	BOR Part #
EM8100-4.10	#6 AWG Insulated Flexible Harness, 4"	1979988
EM8100-6.10	#6 AWG Insulated Flexible Harness, 6"	936035
EM8100-8.10	#6 AWG Insulated Flexible Harness, 8"	2367023
EM8100-10.10	#6 AWG Insulated Flexible Harness, 10"	2273642
EM8100-14.10	#6 AWG Insulated Flexible Harness, 14"	872637

Many configurations and lengths available — contact your BOR representative for details.

Type KS SERVIT® Split Bolt

Compact, high strength, high copper alloy SERVIT® split bolt has free-running threads and easy to grip wrench flats. Highly resistant to season cracking and corrosion, the SERVIT® connectors provide maximum pressure and assure a secure connection on all combinations of run and tap conductors.

- Rated for Direct Burial in earth or concrete
- UL467 Listed



Mfr. Model #	Cross Flats	Length	Width	Copper Conductor Range	Recommended Tightening Torque (in-lb)	BOR Part #
KS17	.63"	1.14"	.45"	8 STR–6 SOL	165	121901

Anchor Rod Bonding Clamps

For Expanding, Crossplate, and Rock Anchor Rods.

- Bonding clamps maintain a dependable mechanical and electrical pressure contact between guy strand and anchor rod when the guy is part of the grounding system
- Cast aluminum body
- Designed to fit Hubbell Power Systems anchor system
- RUS listed



Mfr. Model #	Anchor Rod Style	Anchor Rod Diameter	Material	BOR Part #
G5060	Thimbleye®	1/2", 5/8", and 3/4"	Aluminum	100203
G5061	Twineye®	5/8" and 3/4"	Aluminum	100205
G5063	Tripleye®	3/4" and 1"	Aluminum	100206

Grounding and Bonding

Messenger Ground Clamp

- Bolt can be removed so that the clamp can be dropped over the messenger
- Hot-dip galvanized per ASTM A-153



Mfr. Model #	Steel Size	Length	Bolt Size	Weight Ea	BOR Part #
7956	3/16" x 1-3/4"	1-3/4"	1/2" x 1-3/4"	0.61 lbs	574423

Grounding Clamp

Grounds copper wire or cable to pipe or rod.



Mfr. Model #	Type	Rod Diameter	Weight Ea.	Material	BOR Part #
GC5G5	Normal Duty	5/8"	.11 lbs	Bronze	120795

Vise Type Grounding Clamp

General use vise type bronze copper to copper.

- For copper connections-Splice, Loop deadend or service entrance tap or grounding connections
- One piece design for easier, faster installation
- Bolt head design for use with standard ratchet wrench
- Vise design achieves high connector with low wrench force



Mfr. Model #	Conductor Max x2	Conductor Min x2	Dia. Range (2 Cond. Combo)	Weight Ea	Bolt Head (Hex)	BOR Part #
GC5006SH	#6 SOL	#10 SOL	.162"-.101"	.09 lbs	3/8"	152798
GC5020S	2/0 SOL	#3 SOL	.438"-.229"	.28 lbs	9/16"	152994

Grounding Connectors

Used to provide a solderless connection between ground wires.

- Vise-type connectors made of corrosion resistant, high strength bronze
- Fast easy connection



Mfr. Model #	Description	Conductor Range	BOR Part #
SI-2140	Grounding Connector	Min. 2-#2 SOL, Max. 2-2/0 STR	3521352
SI-2170	Grounding Connector	Min. #6, Max. #8	1078503

Ground Rod Clamps

Used to provide a solderless connection between #6 ground wire and a ground rod.

- Available in vibration proof, anti-loosening versions
- Clamps are constructed of cast bronze
- UL and CUL listed



Mfr. Model #	Description	BOR Part #
SI-0038C	Ground Rod Clamp, Economy, 5/8"	3521353
SI-2142	Ground Rod Clamp, Heavy Duty	3440404

Universal Grounding Straps

Positive Grounding connection to water pipes, electrical conduits and ground rods.

- Features new captive nut, which prevents loss of nut during installation
- Features patented curved nut, which gives a more reliable, secure connection to pipe
- Set screw stud assembly is compatible with a standard terminal wrench
- Set-screw stud assembly is compatible with a standard terminal wrench and allows ground wire changes without loosening clamp
- Available in 6,9, or 12 inch lengths with copper or galvanized straps



Mfr. Model #	Size	BOR Part #
SI-0954-12	12" Strap	3521343
SI-0954-6	6" Strap	3521344
SI-0954-9	9" Strap	3521345
SI-0958-12	12" Strap	3521346
SI-0958-6	6" Strap	3521347
SI-0958-9	9" Strap	3521348

Armored Cable Grounding Kits

Secure your fiber optic cables with our armored grounding kit.

- Includes 6 AWG terminal and #10 mechanical clamp
- Worm-gear design ensures even force distribution
- Reliable for indoor/outdoor use



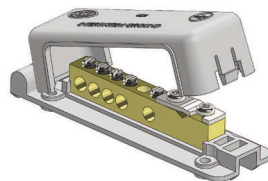
PANDUIT®

Mfr. Model #	Description	BOR Part #
ACGK	StructuredGround™ ACGK Armored Cable Grounding Kit	2321268

Inter-System Bonding Terminal

Provides convenient, quick method to interconnect ground wires from multiple communications systems to a single main ground.

- Meets requirements of 2008 NEC® Article 250.94
- Allows for up to five connections of conductor sizes #14 AWG Solid–#4 AWG Solid
- Allows for connection to main conductor size of #6 AWG Solid #2 AWG Stranded
- Captive swivel cover swings out of the way for easy installation
- Includes mounting hardware
- Base and cover constructed of impact resistant, UV stabilized polymer



MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Description	BOR Part #
SI-IBT	Inner System Bonding Terminal	3521354

Water Pipe Clamp

Ideal in bonding copper ground wire to galvanized or copper pipe and conduit.

- Bronze or galvanized
- Accepts #14 AWG to #6 AWG copper wire



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Mfr. Model #	Description	BOR Part #
SI-5948	Water Pipe Clamp — Bronze	3521349
SI-5948G	Water Pipe Clamp — Galvanized	3521350

Meter Box Clamps

Engineered to provide a positive ground connection to customer meter boxes without the need for a ground rod, ground rod clamp, or long ground wire runs.

- Patented screw design (cone and tip arrangement for intimate ground to base metal)
- No need to loosen clamp to attach or remove ground wires
- No preparation of meter box surface required
- Patented
- UL and CUL listed



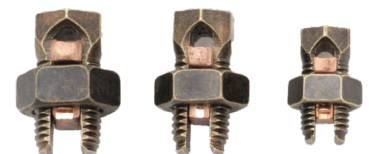
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Mfr. Model #	Description	BOR Part #
SI-2165	Meter Box Clamp — Side Bar	3521339
SI-2167	Meter Box Clamp — Lip Style	3521340
SI-2167SLM	Meter Box Clamp — Slim Style	3521341

Split Bolt

High Strength corrosion resistant copper alloy connectors for use in bonding applications.

- Designed to provide high clamping force
- Split bolt will accept on any combination of two conductors shown in the chart below
- UL and CUL listed



MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Description	Min. Pair	Max. Pair	BOR Part #
SI-2004	Split Bolt	#8 SOL	#4 SOL	3535157

Grounding and Bonding

Copper-Bonded Ground Rod, Pointed

- 99.9% pure electrolytic copper coating
- Molecular bond to nickel-sealed high strength steel core
- Rods have a high carbon steel core and tip that provide superior strength when driving
- Copper coating will not crack when bent or tear when driven
- Minimum copper coating of 10 mils on rods listed to UL® 467
- Vent ERICO name, length, diameter and part number is roll-stamped within 12" (304,8 mm) of chamfered end
- UL logo and control number where applicable stamped on each rod for easy inspection after installation



Mfr. Model #	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual Ø	Length	Plating Thickness	Unit Weight	Complies With	Certifications	BOR Part #
611300	1/2"	0.505"	10.0'	10 mil	6.900 lb	ANSI®/NEMA® GR1	CSA, cULus	167915
611350	1/2"	0.505"	5.0'	10 mil	3.500 lb	—	—	2454697
611380	1/2"	0.505"	8.0'	10 mil	5.500 lb	ANSI®/NEMA® GR1	UL	167950
615803	5/8"	0.561"	10.0'	13 mil	8.400 lb	IEC® EN 62561-2, ANSI®/NEMA® GR1	cULus	167973
615880	5/8"	0.560"	8.0'	10 mil	6.800 lb	IEC® EN 62561-2, ANSI®/NEMA® GR1	UL	167916
615883	5/8"	0.561"	8.0'	13 mil	6.800 lb	IEC® EN 62561-2, ANSI®/NEMA® GR1	UL	167955

Hammerlock Ground Clamp

Connect and protect.

- Irreversible connection with excellent mechanical strength
- Fast and simple installation requires only a hammer
- No special training required
- Low resistance connection
- Provides a visual indication of completed connection
- Allows for "T" or pass-through connections
- Copper bonded
- cULus certification



Mfr. Model #	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual Ø	Conductor Size	Number of Conductors	BOR Part #
EHL12FC1K	1/2"	0.50"	#6 Solid – #4 Solid, 16 mm² Stranded	1	1533063
EHL58C1K	5/8"	0.56"	#6 Solid – #4 Solid, 16 mm² Stranded	1	1533011

Hand Holes

Tier 15 Underground Enclosure

Tier rated underground enclosures for driveway/ parking lot/off-roadway applications.

- Rugged construction
- Stackable
- Lightweight
- More usable volume
- Easy to install



Mfr. Model #	Description	BOR Part #
C173024AGGTHXFO	Tier 15 Underground Enclosure	3399827

Below Grade Enclosures

HDPE Enclosures for light duty applications.

- Most popular sizes
- Overlapping lid
- Black base with green lid
- Competitively priced



Mfr. Model #	Appx. Dimensions	Cover Weight	Box Weight	Assembly Weight	BOR Part #
P100010ABGTHXFO	10"W x 00"L x 10"D	1 lb	3 lbs	4 lbs	3399998
P141912ABGMHXFO	14"W x 19"L x 12"D	2 lbs	6 lbs	8 lbs	3399989

Hand Holes

Polymer Concrete Boxes and Covers

Quazite enclosures offer not only improved manageability and cost-efficiency over other enclosures, but peace of mind as well.

- Meets or exceeds ANSI / SCTE 77 Tier Ratings
- High strength and durability
- Cost effective
- Nonconductive and nonflammable
- Stable under freeze / thaw conditions
- Impact resistant
- All hardware is hot dip galvanized or stainless steel
- Polymer materials do not rust or corrode
- Custom logos and colors available



Mfr. Model #	Dimensions	Tier	Design/Test Load#	Weight	Pallet Qty.	BOR Part #
Boxes						
PG2436BA24	24" x 36" x 24"	Tier 22	22,500/33,750	185 lbs	3	103186
PG3048BA36	30" x 48" x 36"	Tier 22	22,500/33,750	370 lbs	2	103160
PG4848BA36	48" x 48" x 36"	Tier 22	22,500/33,750	629 lbs	2	996613
Covers						
PG2436C55521	2-Piece Polymer Concrete Cover 24" x 36" x 3" With Throat Opening for Charles Ind. #8 Pedestal With Fiber Optics logo	Pedestrian Rated Only	N/A	141 lbs	10	3384635
PG2436HA0012	Polymer Concrete Cover 24" x 36" x 3" With Communications Logo	Tier 15	15,000/22,500	112 lbs	10	103248
PG2436HA0021	Polymer Concrete Cover 24" x 36" x 3" With Fiber Optics logo	Tier 15	15,000/22,500	112 lbs	10	228409
PG3048HA0012	Polymer Concrete Cover 30" x 48" x 3" With Communications Logo	Tier 15	15,000/22,500	200 lbs	10	959014
PG3048HA0021	Polymer Concrete Cover 30" x 48" x 3" With Fiber Optics logo	Tier 15	15,000/22,500	200 lbs	10	1241568
PG4848HA0012	Polymer Concrete Cover 48" x 48" x 3" With Communications Logo	Tier 15	15,000/22,500	352 lbs	10	1052631
PG4848HA0021	Polymer Concrete Cover 48" x 48" x 3" With Fiber Optics Logo	Tier 15	15,000/22,500	352 lbs	10	2864439

Purpose

We help customers power communities, strengthen industries and build tomorrow by owning every relationship, every moment and every outcome.

Together, we move America forward.



Hand Holes

CraftSmart Fiber Protection Vault

Flat packed, easily assembled solution for the optimized installation and deployment of Clearfield FDH Cabinets and Pedestals.

- Designed to comply to Telcordia GR-902
- Compliant to ANSI/SCTE 77 2010 as specified by N.E.C. ANSI C57 Enclosure Integrity
- Compliant to Western Underground Guide 3.6
- Hex head security bolts
- Vaults incorporate a unique overlapping cover design to reduce soil mitigation into box Access
- Multiple cover options, including a 2-piece split thermoplastic cover, provide ease of access and cut outs for FieldSmart cabinets and pedestals
- Mounting bolts for FieldSmart cabinets and pedestals are included with cutout lid option Investment
- High strength rigid construction ensures long term reliability in the harshest environments
- Lighter and easier to handle than concrete, which increases the overall safety factor
- Flat packed to improve efficiencies and lower cost of transportation, storage and deployment



Mfr. Model #	Description	BOR Part #
VC7B-CZP	Vault, 36in x 48in x 36in, HDPE, split lid with cutout for clearfield cabinets, includes bolt kit	3625709
VC7B-BZP	Vault, 36in x 48in x 36in, HDPE, solid split lid	3671443

Pedestals

CraftSmart FiberFirst Pedestal 144-Port PON Insert Kit/Vault Mount

Provides splice or interconnect functionality, in industry-standard FiberFirst pedestals and vaults, for drops to the home in the last mile of the access network..

- Provides a maximum capacity of 144 homes served and is configured for PON environments
- Terminations are designed and tested to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Pedestal designed to comply with GR-13
- Clearview Cassette for physical fiber protection, bend-radius protection, access
- Buffer tube slack storage fully bend-radius protected
- Designed and tested to withstand the harshest of environmental conditions, including UV, chemical and impact resistance, the FiberFirst Pedestal consists of a base and 2-part interlocking removable cover
- Flood proof non-metallic pedestals
- Can wrench accessible design



Mfr. Model #	Description	BOR Part #
J-CAA-144-C1F-ZZZ	Pedestal, fiberfirst, patch and splice, 12 feeder ports, 144 distribution ports, sc/apc, tight buffer clearview blue cassette(s)	3671441
J-BAA-144-C1E-ZZZ 075F	Pedestal, fiberfirst, patch only, 12 feeder ports, 144 distribution ports, sc/apc, 1 x 144 fiber, osp non-rated loose tube in clearview blue cassette(s), 75 feet	3671440

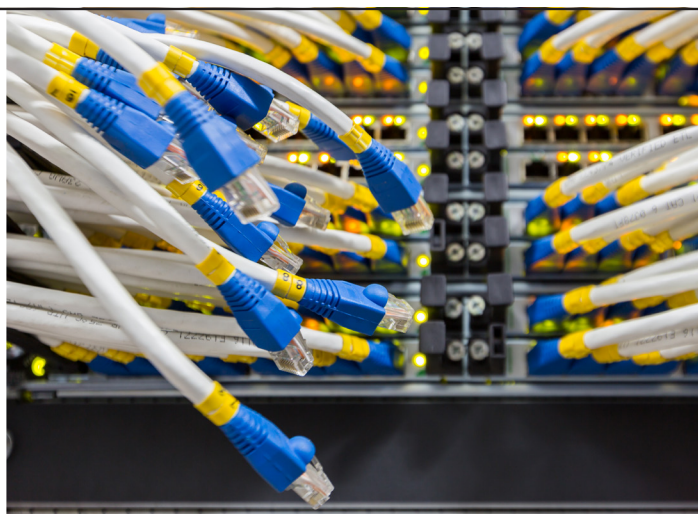
Fiber Distribution Pedestals

Provides secure yet accessible enclosure for FTTX drops.

- Multiple sizes
- Multiple configurations
- Use with terminals, bulkheads or splice trays
- Bell jar effect keeps connections dry
- Robust material



Mfr. Model #	Description	BOR Part #
105SS07-4007000	Louvered Vertical Pedestal (LVP)	3399864
CFDP208-EL08D	CFDP208-EL08 with Extra Velcro Straps	3396887
CFDP208-EPS	8" Pedestal with Fiber Splicing Organizer, One Interior Dome, Direct Bury Base	2477200
CFDP208-EVPS	CFDP208-EPS with Vault Mount Base	3396793
CFDP210-EPS	10" Pedestal with Fiber Splicing Organizer, One Interior Dome, Direct Bury Base	2700219
Accessories		
UMS36-STD	Stakes for Pedestals	3396784



Reliable Service and Real Value

When you need support, we work alongside you — day or night — doing whatever it takes to provide you with innovative solutions and quality materials.

Pedestals

CraftSmart FiberFirst 6-Inch Pedestal

Consists of a two-part base and removable cover measuring 5.9” in diameter and 20” or 30” in height and are designed and tested to withstand harsh environmental conditions, as well as UV, chemical and impact resistance. The pedestal includes a built-in, multi-use metal frame for mounting various products inside the pedestal.

Empty Ped Option

The empty ped option is ideal for housing various types of fiber terminations. The pre-installed pedestal frame and ground bar make this a great option for rapid field installations close to the home.

SeeChange® Terminal Option

The SeeChange Terminal mounting bracket option is available to support the deployment of Clearfield’s uniquely small SeeChange Terminal. The bracket and terminal can easily be installed in the field and ordered separately.

- Constructed of durable, UV resistant material for maximum security and service life.
- Separate, direct-bury base and removable cover, all made with a high impact resistant thermoplastic material.
- Designed to meet and exceed GR-13.
- Interlocking cover provides protection from the elements.
- Industry standard telco security screw (216) attaches cover securely to base.
- Direct-bury base provides a uniform and secure installation while reducing the chances of leaning or tilting.
- Removable cover provides complete access to inside of pedestal.
- Built-in, integrated frame provides multiple mounting options for a wide variety of applications.
- Small profile and cost-effective pedestal can be deployed in a variety of applications.



Mfr. Model #	Description	BOR Part #
CFP-0630-MFT-BKT-SC	Pedestal, 30inch, 6inch diameter with SC/MPO tether adaptor bracket, includes 8 SCAPC adapters and 2 MPO adapters	3671442



We Care About
Our Communities

As a 100% employee-owned company with over 70 years in the electrical distribution industry, our mission and values have always been centered on delivering exceptional supply chain services and taking care of our communities.

Border States is proud to support the communities we work in.

borderstates.com



Route Markers

TriView Test Station/Locate Marker

Marker post with locating capability.

- Triangular shaped Test Station marker with Warning message decals on each side and slide-off top cap
- Includes Grounded Locate Plate on terminal board for easy locating
- Made of engineered UV resistant thermoplastic that resists fading
- Will rebound if hit by cars, trucks, etc
- 10 year warranty against significant fading
- Other lengths available in 6" increments up to 90" long



Mfr. Model #	Description	BOR Part #
TVTI42OB-EM6300	42" Locate Marker with Grounded Locate Plate	3012256

Cable Clipper® Marker

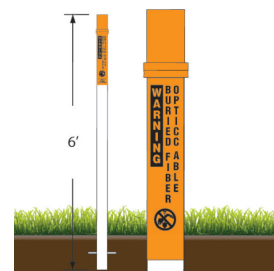
- 6.125" x 1.625" PVC caution fiber optic cable marker
- Black-on-orange label with black clip



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
CC-SHORT	0.5" Diameter Cable	500	25 Per Pack	3539048
CC-SHORT-1	1.0" Diameter Cable	500	25 Per Pack	3539049

6FT TestPost®

- 5 standard terminals
- Orange cap with black molded-in graphics
- Includes anchor



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
TSP6-FOC	6' Test Station Marker Post 25		Pallet	3539056

TriView Marking Post

Alerts 3rd party excavators and facility owners that there is buried cable in the area.

- Triangular shaped marker with Warning message decals on each side is visible from any angle
- Warning message decals are multi-colored
- Made of engineered UV resistant thermoplastic that resists fading
- Will rebound if hit by cars, trucks, etc
- 10 year warranty against significant fading
- Other lengths available in 6" increments up to 90" long



Mfr. Model #	Description	BOR Part #
TVF48-OB	48" Long, Orange, Black Cap	1557357

Quik-Mark® Inverted Marking Paints

One-coat coverage on concrete, pavement, gravel, grass, brick, asphalt, athletic fields, utility, excavation, ground surveying and construction marking. Spray-Thru™ cap allows for inverted painting ease.

- High-solids formulation for bold, bright, visible markings
- Fast-drying formula penetrates and adheres to hot and cold surfaces
- Convenient Spray-Thru™ cap
- Non-clogging spray tip



Mfr. Model #	Color	Type	Size	BOR Part #
A03900007	Utility White	Solvent-Based	17 oz.	1477003
A03622007	Fluorescent Hot Pink	Solvent-Based	17 oz.	2747037
A03700004	Fluorescent Orange	Water-Based	17 oz.	2652452
A03911004	Fluorescent Pink	Water-Based	12 oz.	1720520

Route Markers

3M™ Extended Range Ball Markers

Unlike surface features, maps and other methods of recording position, the 3M™ Extended Range Ball Markers are a constant point of reference you can depend on.

- 4 inch self-leveling sphere
- Specially designed for locating flush mounted facilities covered by backfill
- Affixes to underside of non metallic lids or covers over flush mounted facilities
- Self align marker offers positive identification of facilities
- Self-leveling design for precise and horizontal positioning
- Works without any external power source
- Operate in all soil types; under asphalt; cement; and wet or dry soil
- Provide easy positive identification with each utility having its own frequency;
- Color-coded APWA standards
- 3M™ iD Markers have additional option to include customer specific information (i.e. facility data, material type/size, application type and placement date)



Mfr. Model #	Utility Type	Detection Read Range	RF Technology	Color	Freq. (kHz)	BOR Part #
1401-XR	Telephone	6 ft	Passive RF	Orange	101.4	167571
1402-XR	Power	6 ft	Passive RF	Red	169.8	115946
1403-XR	Water	6 ft	Passive RF	Blue	145.7	1592343
1404-XR	Wastewater	6 ft	Passive RF	Green	121.6	2086459
1405-XR	Gas	6 ft	Passive RF	Yellow	83.0	1595337
1408-XR	General Purpose	6 ft	Passive RF	Purple	66.35	2390689
1421-XR/iD	Telephone	5 ft	Passive RFiD	Orange	101.4	2472178
1422-XR/iD	Power	5 ft	Passive RFiD	Red	169.8	1993939
1423-XR/iD	Water	5 ft	Passive RFiD	Blue	145.7	1681611
1424-XR/iD	Wastewater	5 ft	Passive RFiD	Green	121.6	2472175
1425-XR/iD	Gas	5 ft	Passive RFiD	Yellow	83.0	1993943
1428-XR/iD	General Purpose	5 ft	Passive RFiD	Purple	66.35	2322012

OmniMarkerII

Resonant markers allow quick, accurate and positive identification of the network.

- Increase the safety of your employees and preserve your assets
- Locate notable points on the marking flags
- Mapping the network at lower cost: closed trench geo-referencing



Mfr. Model #	Description	BOR Part #
OM-02	CATV Orange-Black Marker Ball	3679240
OM-04	Fiber Optic Yellow-Black Marker Ball	3679241
OM-05	Telephone Orange Marker Ball	3593587
OM-09	Power Red Marker Ball	3484234

Terra Tape® Extra Stretch™ II

Terra Tape® Extra Stretch™ II is a 100% virgin pigmented polyolefin film with a printed message on one side.

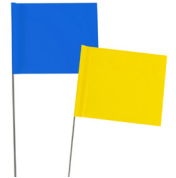
- Ink used to print the material is permanent and cannot be removed by normal handling or upon long term underground burial
- Material and ink are chemically inert and will not degrade when exposed to acids, alkalies and other destructive substances commonly found in soil
- Material is available in orange. Other colors may be available upon request



Mfr. Model #	Description	Imprint	BOR Part #
42-0159	Orange 3" x 6000'	"CAUTION FIBER OPTIC CABLE BURIED BELOW"	2671368

Vinyl Caution Flags

- Standard vinyl stake flags measure 4" x 5" and are brightly colored for long-distance visibility.
- Used to clearly mark landscaping, underground utilities, sewers, boundaries, surveying, and more.



Mfr. Model #	Color	Length	BOR Part #
450W-BLUE	Blue	30"	3303247
450W-ORANGE	Orange	30"	3222082
450W-RED	Red	30"	1241536
450W-WHITE	White	30"	2104367

Fiber Optic Solutions

Construction

Route Markers

SnapAround® Cable Marker

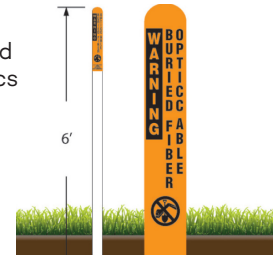
- Caution fiber optic cable marker
- Orange with black print



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
SA1	4"x 4" (.375"-1.0" diameter cable)	250 Markers	50 Per Pack	3240230
SA3	7"x 4" (.375"-1.0" diameter cable)	250 Markers	50 Per Pack	3539047

6FT DomedPost®

- White post with orange molded dome, black molded-in graphics
- Includes anchor



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
DOMEPOST6-FOC	6' Dome Marker Post	100	Pallet	3539054

Curb Marker

- 4" diameter domed disk for marking curbs
- Outdoor durable
- Custom printed black on orange
- Use adhesive PS-800



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
CM-FOC4	Caution Fiber Optic Cable Curb Marker	500	50 Per Pack	3539052

6FT FlexPost®

- Orange post with custom printed black-on-orange decal applied
- Includes anchoring system



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
FLEXPOST66-FOC	6' Flexible Line Marker Post	50	Pallet	3539055

Adhesive

- Used for mounting polyethylene signs, tags or curb markers
- Ideal for concrete and cement surfaces



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
PS-800	11 oz. Tube Industrial Bonding Adhesive	1	1 Tube	3539053

Soil Marker

- Warning buried fiber optic cable marker for "Flush" above ground markings
- 7" disk, printed black on orange, with 13" 2-barb stake
- Graphics are molded into disk



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
SOIL-BFOC-DND	Warning Buried Fiber Optic Cable Marker	100	25 Per Pack	3539058

Premise Cabling and Networking

Scotchlok™ Butt Connector UR2

- These solvent-resistant connectors accept two or three solid copper conductors that can be of different wire gauges, for butt splicing
- UR2 connectors are filled with a sealant to provide moisture resistance



CORNING

Mfr. Model #	Description	Maximum Insulation O.D.	PIC-Unfilled and PIC-Filled	Box Qty.	BOR Part #
80611327596	Gel-Filled Polypropylene Cat. 5	0.082" (2.08 mm)	26-19 AWG (0.4-0.9 mm)	100	167497

Snap-N-Seal® ProSNS™ Compression Connectors

Specifically designed to combine the patented technologies of Snap-N-Seal® and F-Conn® to provide ease of installation and quality performance, the Belden Snap-N-Seal® ProSNS™ connectors deliver a reliable connection for a variety of applications.

Universal

- ProSNS™ universal RG-59, RG-6 and RG-11 connectors are designed to fit most non-plenum coaxial cables including 60% braid, tri-shield and quad-shield.

Plenum

- ProSNS™ plenum connectors are designed to fit most plenum coaxial cables. ProSNS™ RG-59 and RG-6 plenum connectors feature rangelocking design which accounts for slightly different diameters found in plenum cables from different manufacturers.

Right Angle

- ProSNS™ right angle connectors also feature a universal design which allows for use on most non-plenum RG-59, RG-6 and RG-11 cables.

Mini

- ProSNS™ mini coax connectors feature superior cable pullout force while maintaining an easy to install design.
- One piece or multi-piece constructions are available from 22-26 AWG.

All ProSNS™ connectors have the following features:

- TRUE 360° compression onto the cable providing superior RF shielding performance, -85 dB effective shielding (typical on 60% bonded foil cable).
- A patented floating-pin insertion guide assists with the insertion of the cable into the connector and reduces the insertion force required to provide consistency and easy termination of the connector.
- An additional O-ring placed at base of the connector with a NiTin finish and UV resistant plastic provides a reliable, environmentally sealed product.
- Low insertion force is required to compress the connector onto the cable.
- The improved design offers the flexibility to be installed with nearly all available compression tools.
- Installation requires the industry standard 1/4"-1/4" cable preparation.
- Meet or exceed all SCTE standards.



BELDEN
SENDING ALL THE RIGHT SIGNALS®

Mfr. Model #	Description	Cable Type	Cable Jacket (in)	Center Conductor (in)	Indoor/Outdoor	Pack Qty	BOR Part #
FSNS59U-25	Universal "F" Connector for Standard or Quad-Shield Cable	RG-59	.232" - .273"	.0317" - .0339"	Indoor/Outdoor	25	3501785
FSNS59PL-25	F Connector for Plenum Cable	RG-59 Plenum	.190" - .220"	.0317" - .0339"	Indoor/Outdoor	25	3581636
FSNS6U-25	Universal "F" Connector for Standard or Quad-Shield Cable	RG-6	.265" - .305"	.0399" - .0418"	Indoor/Outdoor	25	3302733
FSNS6PL-25	F Connector for Plenum Cable	RG-6 Plenum	.220" - .250"	.0399" - .0418"	Indoor/Outdoor	25	3579346
716SNS1P11H-25	7/16" Universal "F" Connector for Standard or Quad-Shield Cable	RG-11	.390" - .417"	.0634" - .0647"	Indoor/Outdoor	25	3554181

Premise Cabling and Networking



EZ-RJ45® CAT5/5e Connectors

The Original EZ-RJ45 CAT5e Connector simplifies twisted pair terminations by allowing the wires to be inserted through the connector and out the front. This allows the technician to easily verify the proper wiring order. Electrical performance of the termination is optimized by pulling the connector down over the cable jacket and seating it tightly in the rear of the connector. By reducing the distance between the wire twists and contacts, performance is optimized!

- Recommended for Data Applications Only
- Rated to 1 Gb
- Crimp with one of the EZ-RJ45 Crimp Tools.
*Part Numbers 100062, 100054 or 100004
- Max Cable Outer Diameter: 0.240" (6.09mm)
- Max Insulation Diameter (Conductors): 0.040" (1.016mm)
- Meets ANSI/EIA/TIA/TAA specifications
- UL Listed E188111, UL94 V-0 and RoHS3/FCC compliant
- Solid or Stranded, 24 – 23 AWG
- 50 micron gold plated contacts
- Color: Clear/Transparent
- NOT intended to be compatible with other brands



Mfr. Model #	Description	Connector Type	Max Cond Ins Dia	Compatible Tool*	Pack Qty	BOR Part #
100003C	EZ-RJ45 Cat5E Plug	Cat5E	.040" max	100054C	50	3321677
106167C	RJ45 Cat5E Plug	Cat5E	.040" max	12507C	25	3321681
100010B	EZ-RJ45 Cat6 Plug	Cat6	.040" max	100054C	100	2377267
106188J	RJ45 Cat6 Plug	Cat6	.044" max	12507C	100	3670274
100020	EZ-RJ45 Cat5E/6 Shielded Plug	Cat5E/6	.040" max	100054C	50	2863201
100026B	EZ-RJ12/11 Plug		.040" max	100054C	100	2863236
105027	ezEX44 Shielded Cat6 Plug	Cat6	.039-.044"	100061C	100	3487875
202050J	ezEX44 Shielded Cat6 Plug	Cat6	.039-.044"	100061C	50	3401759
90188	ezEX Starter Kit	Cat5E/6/6A	varies			3628469

*See page 90 for crimp tools.

Intellinet Ethernet Switches



Mfr. Model #	Description	BOR Part #
530378	5-Port Gigabit Ethernet Switch Desktop Size, Metal Housing, IEEE 802.3az (Energy Efficient Ethernet)	3160222
561426	24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 4 Gigabit Combo Base-T/SFP Ports, IEEE 802.3at/af Power over Ethernet (PoE+/PoE) Compliant, 370 W, Endspan, 19" Rackmount	3545772

Value Series™ Cat 5e and Cat 6 Booted Patch Cord

- Factory terminated for superior performance
- Meets or exceeds industry standards for NEXT and return loss
- Made with 24 AWG, stranded copper (7 x 32), four twisted pairs



Mfr. Model #	Type	Length	BOR Part #
570-110-001	Cat 5e	1'	3327659
570-110-003	Cat 5e	3'	3327648
570-110-005	Cat 5e	5'	3327592
570-110-007	Cat 5e	7'	3327643
570-110-010	Cat 5e	10'	3327649
570-110-014	Cat 5e	14'	3327642
570-110-025	Cat 5e	25'	3327652
576-110-001	Cat 6	1'	3327456
576-110-003	Cat 6	3'	3327445
576-110-005	Cat 6	5'	3327400
576-110-007	Cat 6	7'	3327446
576-110-010	Cat 6	10'	3327447
576-110-014	Cat 6	14'	3352239
576-110-025	Cat 6	25'	3335703

Surface-Mount Telephone Jacks

- Screw terminal connections provide flexible, secure and reliable performance
- Finish and color matches Leviton wallplates for a consistent look throughout the home or business
- Available for single 6P4C telephone line connection, 6P6C 3-line connection, 8P8C 4-line connection and 8P8C with shorting bars (for security applications)
- Mounting hardware and double-sided tape included

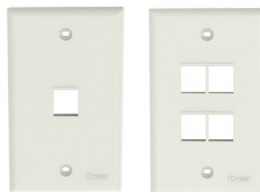


LEVITON

Mfr. Model #	Description	Color	BOR Part #
4625A-24W	6P4C Screw Terminal	White	123343
4625A-24I	6P4C Screw Terminal	Ivory	123339

NetKey® Faceplates

- Keystone port style
- NEMA standard single gang
- Can identify with adhesive labels (sold separately)



PANDUIT®

Mfr. Model #	Description	BOR Part #
NK1FNIW	NK 1-Port, Single Gang, Flush Mount Faceplate (off-white)	2332243
NK1FNWH	NK 1-Port, Single Gang, Flush Mount Faceplate (white)	2332244
NK2FNIW	NK 2-Port, Single Gang, Flush Mount Faceplate (off-white)	2332258
NK2FNWH	NK 2-Port, Single Gang, Flush Mount Faceplate (white)	2332259
NK3FNIW	NK 3-Port, Single Gang, Flush Mount Faceplate (off-white)	2332287
NK3FNWH	NK 3-Port, Single Gang, Flush Mount Faceplate (white)	2332288
NK4FNIW	NK 4-Port, Single Gang, Flush Mount Faceplate (off-white)	2332298
NK4FNWH	NK 4-Port, Single Gang, Flush Mount Faceplate (white)	2332299

NetKey® Surface Mount Boxes

- NetKey® surface mount box accepts two keystone modules
- Includes built-in removable blank
- Supplied with mounting screws, adhesive backing and cable tie



PANDUIT®

Mfr. Model #	Description	BOR Part #
NK2BXIW-A	NK 2-Port Surface Mount Box, (off white)	2332253
NK2BXWH-A	NK 2-Port Surface Mount Box, (white)	2304799

NetKey® Connectivity and Outlets

Panduit quality and performance in an industry standard keystone form factor.

- 100% Performance tested jack modules
- T568 A/B compatible jack modules
- Jack modules are rated for 2,500 mating cycles
- Jack modules use punchdown style termination, and include a strain relief retention cap
- Standard keystone footprint



PANDUIT®

Mfr. Model #	Description	BOR Part #
NKP5E88MIW	Category 5e, 8-Position, 8-Wire, Keystone Punchdown Jack Module (off-white)	2332523
NKP5E88MWH	Category 5e, 8-Position, 8-Wire, Keystone Punchdown Jack Module (white)	2332524
NK688MIW	Category 6, 8-Position, Keystone Punchdown Jack Module (off-white)	2332369
NK688MWH	Category 6, 8-Position, Keystone Punchdown Jack Module (white)	2304188
NKBMW-X	NetKey Blank Module, (off-white)	1893344
NKBMW-X	NetKey Blank Module, (white)	2304182

Pro Series High Speed HDMI® Cables with Ethernet

The Pro Series High Speed HDMI® Cables provide integrators with future-proof solutions ideal for today's full 4K, HDR installations.



- Full 18Gbps bandwidth
- UltraHD- 4K@60Hz- 4:4:4 chroma sampling
- Enables transmission of High Dynamic Range (HDR) video
- EMI tested to ensure cables minimize interference with wireless signals
- 100% Aluminum Shielded Connector — 360 degrees of coverage
- Up to 32 audio channels with ARC for a multi-dimensional immersive audio experience
- HD Audio Formats such as DTS-HD Master Audio- Dolby TrueHD- Dolby Atmos- and more
- Support for the wide angle theatrical 21:9 video aspect ratio
- Future-proofed and perfect for today's 4K/UltraHD environment
- UL Listed- CL3 Rated

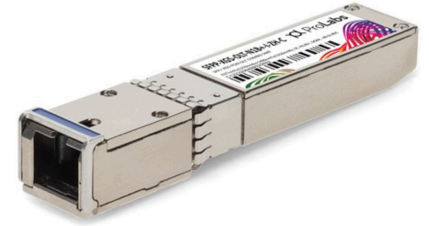
VANCO
ADVANCING...CONNECTIVITY

Mfr. Model #	Color Depth	Length	O.D.	BOR Part #
PROHD06	8 Bit	6 ft	7.3 mm	3453413
PROHD10	8 Bit	10 ft	7.3 mm	3499680

Premise Cabling and Networking

Transceivers

Prolabs has a full portfolio of transceivers for FTTH including GPON – OLT, EPON – OLT, Active Ethernet – OLT/ONT and CPRI modules! The “H” in FTTH is simply one of architectures that your FTTH strategy must support – and Prolabs is uniquely positioned to be your strategic partner for all your optics needs!



ProLabs Part #	Compatible with:	MSA	TAA	Technology	Type	Optics	Wavelength (nm Tx/Rx)	Rate (Gb/s Tx/Rx)	BOR Part #
100-05148-C	Calix® 100-05148		YES	GPON	OLT	B+	1490/1310	2.4/1.2	3636920
100-05071-C	Calix® 100-05071		YES	GPON	OLT	C+	1490/1310	2.4/1.2	3636921
1442543F2-C	ADTRAN® 1442543F2		YES	Combo	OLT	C+	1577/1270, 1490/1310	2.5/1.25, 10/10	3636922
1442540F1-C	ADTRAN® 1442540F1		YES	GPON	OLT	C+	1490/1310	2.5/1.25	3636923
1442530G1-C	ADTRAN® 1442530G1		YES	GPON	OLT	B+	1490/1310	2.5/1.25	3636924
1200488F1C-C	ADTRAN® 1200488F1C		YES	XGS-PON	ONT		1270/1577	10/10	3636925
1200488F3-ASC-C	ADTRAN® 1200488F3-ASC		YES	XGS-PON	ONT		1270/1577	10/10	3636926
GPON-SFP-OLT-B+-I-C	generic	YES	YES	GPON	OLT	B+	1490/1310	2.4/1.2	3636927
GPON-SFP-OLT-C+-I-C	generic	YES	YES	GPON	OLT	C+	1490/1310	2.5/1.25	3636928
GPON-SFP-OLT-C++-I-C	generic	YES	YES	GPON	OLT	C++	1490/1310	2.5/1.25	3636929
SFPP-XGS-OLT-N1B+-I-C	generic	YES	YES	XGS-PON	OLT	B+	1577/1270	10/10	3636930
SFPP-XGS-OLT-N2C+-I-C	generic	YES	YES	XGS-PON	OLT	C+	1577/1270	10/10	3636931
SFPP-XGS-ONU-I-C	generic	YES	YES	XGS-PON	ONT		1270/1577	10/10	3636932
SFPP-XGS-ONU-I-ASC-C	generic	YES	YES	XGS-PON	ONT		1270/1577	10/10	3636933
MXK-GPON-SFP-B+-RSSI-C	Zhone® MXK-GPON-SFP-B+-RSSI		YES	GPON	OLT	B+	1490/1310	2.4/1.2	3636934
MXK-GPON-SFP-C+-RSSI-C	Zhone® MXK-GPON-SFP-C+-RSSI		YES	GPON	OLT	C+	1490/1310	2.4/1.2	3636935
SFPP-XGS-OLT-N1B+-I-ZH-C	Zhone® Compatible			XGS-PON	OLT	B+	1577/1270, 1490/1310	1/10	3636936
3FE47581BD-C	Alcatel-Lucent Nokia 3FE47581BD	YES		Combo	OLT	C+	1577/1270, 1490/1310	2.4/1.2, 10/10	3636937

Thousands of additional models available

Purpose

We help customers power communities, strengthen industries and build tomorrow by owning every relationship, every moment and every outcome.

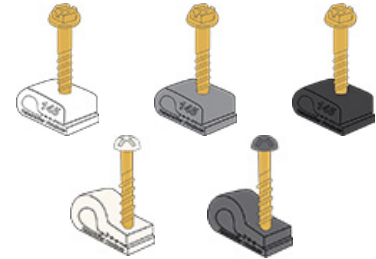
Together, we move America forward.



Telecrafter Fiber Flex Clips

Telecrafter Fiber Flex Clips offers a complete line of fiber attachment clips- 3mm, 4+ mm, micro drop and standard flat fiber, ONT Power.

- BEAD/BABA compliant
- Manufactured from UV rated, pliable yet durable polyethylene
- Combination slotted,phillips, zinc coated hex head screw
- Available in black,white and some in grey
- Made for both interior and exterior use



Telecrafter Products Designing, manufacturing, and delivering quality drop supplies

Mfr. Model #	Description	Color	Screw In Depth	Quantity	Use	BOR Part #
G4BK-03	3MM FIBER FLEX CLIP	BLACK	5/8" SCREW IN DEPTH	PACKAGED IN BAGS OF 100	EXTERIOR USE	2262820
G4WH-03	3MM FIBER FLEX CLIP	WHITE	5/8" SCREW IN DEPTH	PACKAGED IN BAGS OF 100	EXTERIOR USE	3404778
G4BK-05	4+MM FIBER FLEX CLIP	BLACK	9/16" SCREW IN DEPTH	PACKAGED IN BAGS OF 100	EXTERIOR USE	2274963
G4WH-05	4+MM FIBER FLEX CLIP	WHITE	9/16" SCREW IN DEPTH	PACKAGED IN BAGS OF 100	EXTERIOR USE	3480542
L7BK	ONT POWER LINE	BLACK	5/8" SCREW IN DEPTH	PACKAGED IN BAGS OF 100	EXTERIOR USE	2262822
L7BK-ST	ONT POWER LINE	BLACK	7/8" SCREW IN DEPTH	PACKAGED IN BAGS OF 100	EXTERIOR USE	3637883
L7WH-ST	ONT POWER LINE	WHITE	7/8" SCREW IN DEPTH	PACKAGED IN BAGS OF 100	EXTERIOR USE	3637882
C7BK-12	ADJUSTABLE BUNDLING CLIP	BLACK	1 1/8" SCREW IN DEPTH	PACKAGED IN BAGS OF 25	EXTERIOR USE	3637884

Telecrafter Fiber Snap On Split Bushings

Telecrafter Fiber Snap On Split Bushings offers a complete line of feed thru bushings for 3mm & 4+ mm fiber.

- BEAD/BABA compliant
- UV rated
- Patented "Split" design allows you to seal pass through holes after the fiber is installed
- Available in black & white
- Available in 7/16" bore hole (pre connected fiber) and 3/8" bore hole
- Available with both a standard and large hood to seal the hole



Telecrafter Products Designing, manufacturing, and delivering quality drop supplies

Mfr. Model #	Description	Color	Screw In Depth	Quantity	Use	BOR Part #
SBBK-03	3MM SNAP ON SPLIT BUSHING	BLACK	7/16" BORE HOLE	PACKAGED IN BAGS OF 100	STANDARD HOOD .65"	3566403
SBWH-03	3MM SNAP ON SPLIT BUSHING	WHITE	7/16" BORE HOLE	PACKAGED IN BAGS OF 100	STANDARD HOOD .65"	3566404
SBBK-08	4+MM SNAP ON SPLIT BUSHING	BLACK	7/16" BORE HOLE	PACKAGED IN BAGS OF 100	STANDARD HOOD .65"	3502436
SBWH-08	4+MM SNAP ON SPLIT BUSHING	WHITE	7/16" BORE HOLE	PACKAGED IN BAGS OF 100	STANDARD HOOD .65"	3637885
SBBK-38	4+MM SNAP ON SPLIT BUSHING	BLACK	3/8" BORE HOLE	PACKAGED IN BAGS OF 100	STANDARD HOOD .65"	3502434
SBWH-38	4+MM SNAP ON SPLIT BUSHING	WHITE	3/8" BORE HOLE	PACKAGED IN BAGS OF 100	STANDARD HOOD .65"	3637886

Fiber Optic Solutions

Construction

Wire and Cable

Solid Soft Drawn Bare Copper Wire

- Highest conductivity per unit area of all common commercial metals
- Excellent corrosion resistance
- Flexible; easily worked and formed into place
- Packaged on non-returnable spools for easy transportation to job sites
- Good fatigue-resistance; not subject to breaks due to nicks or cuts when terminating
- Totally recyclable with high scrap value



Mfr. Model #	Conductor Size	Conductor Material	Wire Length	BOR Part #
BARESD6SOLCU315R	6 AWG	Copper	315' Reel	2243917
BARESD6SOLCU2500R	6 AWG	Copper	2500' Reel	2243927

THHN and TFN Solid Copper Conductor — 600V

- Solid, uncoated copper conductors per ASTM-B3
- Color-coded PVC insulation, heat- and moisture-resistant and flame-retardant
- Tough polyamide jacket with nylon outer cover
- Type THHN building wire is commonly used for general-purpose applications as defined by the National Electrical Code (NEC)
- Type TFN is primarily used as fixture wire as defined by the NEC at temperatures not to exceed 90°C in dry locations



Mfr. Model #	Conductor Size	Jacket Color	Wire Length	BOR Part #
THHN14BLKSOLCU2500R	14 AWG	Black	2500' Reel	2243917
TFN16GRNSOLCU2500R	16 AWG	Green	2500' Reel	2243927

1/4" EHS 7-Wire A475 Guy Wire Class A and 3/8" HS 7-Wire A363 Static Strand Class A

- 1/4" EHS is commonly used as messenger wire, reinforcing fiber optic cables for overhead data lines, and is also applicable as guy wire
- 3/8" HS is crafted with reinforced steel cores for superior quality and durability as a static strand or overhead ground wire (OHGW)
- Both are hot-dip galvanized with Class A coating weight



Mfr. Model #	Description	BOR Part #
14EHSUYCLSA7STR5000FTRLA475	1/4" EHS 7-Wire A475 Guy Wire Class A, 5,000' Reel	3012517
3/8 HS ASTM A363 5000FT COIL	3/8" HS 7-Wire A363 Static Strand Class A, 5,000' Reel	3385798

Category 5e Cable

Enhanced Transmission Throughput.

- 24 AWG solid bare annealed copper conductors
- Polyolefin Insulation
- Rip Cord applied longitudinally under jacket
- Flame-retardant PVC jacket
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mp/s token ring
- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ICEA S-90-661 (Category 5e)
- UL and c (UL) Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- Third-party verified for guaranteed performance



Mfr. Model #	Description	BOR Part #
CR5.30.02	PULL-PAC® II, 1000', CMR (NON-PLENUM), White	2695021
CR5.30.10	PULL-PAC® II, 1000', CMR (NON-PLENUM), Gray	2695022

Category 6 Cable

Standard-Compliant Solution.

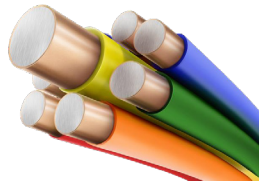
- 23 AWG solid bare annealed copper conductors
- Tape separator
- Polyolefin Insulation
- Rip Cord applied longitudinally under jacket
- Flame-retardant PVC jacket
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- Digital video
- ANSI/TIA/EIA 568 B.2-1 (Category 6)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- UL and c (UL) Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- Third-party verified for guaranteed performance



Mfr. Model #	Description	BOR Part #
CR6.30.02	PULL-PAC® II, 1000', CMR (NON-PLENUM), White	3350977
CR6.30.07	PULL-PAC® II, 1000', CMR (NON-PLENUM), Blue	3144440

High Strength — 1430 CCS Tracer Wire

- 30 mil HDPE insulation
- 282-lb break load
- 2 times the breaking strength of solid copper
- 11% lighter than solid copper means reduced freight expenses
- Copper-clad steel (CCS) wire combines the strength of fully annealed high-carbon steel with the conductivity and corrosion resistance of solid copper
- Bonded metals mean no separating, no corrosion, and no theft appeal
- More stable pricing than solid copper
- Rated for direct bury
- Color-coded to meet American Public Works (APWA) standards for utility identification



Mfr. Model #	Description	BOR Part #
1430NHS2500	#14 AWG (0.0641" diameter) Fully Annealed, High Carbon 1055 Grade Steel, High Strength Solid Copper-Clad Steel Conductor (HS-CCS) Rated at 30 Volts, Insulated With a 30 mil, High-Density, High Molecular Weight Polyethylene (HDPE) Insulation Rated for Direct Burial Use at 30 Volts	3250263

PVC Telecommunications Ground Wire

Manufactured from annealed, solid copper conductors, providing high conductivity and flexibility.

- PVC insulation is available in a wide range of colors: black, beige, olive, gray, and green
- Standard shipments in 200 ft., 300 ft., and 500 ft. lengths; other lengths available upon request



Mfr. Model #	Size (AWG)	Length	Color	BOR Part #
108260005	10 AWG Solid	500'	Green	2667799
112250008	6 AWG Solid	100'	Black	2747079
GROUNDWIRE6AWG	6 AWG Solid	500'	Black	169200
SOL500FTGREENNEHR	6 AWG Solid	500'	Green	2666778

EnduraGain OSP Broadband BBDN

BBDN is an Outside Plant (OSP) Broadband category cable.

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- 8 mil aluminum tape shield
- Dry block between shield and inner jacket
- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged shield provides protection against EMI/RFI
- Prevents water ingress between shield and inner cable preventing damage to equipment
- 4 pair, solid annealed copper conductor with polyolefin insulation
- 1,000' reel



Mfr. Model #	Category	Type	BOR Part #
04-001-54	CAT 5e	Shielded FTP	1727064
04-001-A4	CAT 6A	Shielded FTP	3535164
04-001-64	CAT 6	Shielded FTP	3535163

EnduraGain OSP Broadband BBDG

BBDG is an Outside Plant (OSP) Broadband category cable.

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- Corrugated, copper-clad steel armor
- Dry block between armor and inner jacket
- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged shield provides protection against EMI/RFI and provides rodent resistance
- Prevents water ingress between armor and inner cable preventing damage to equipment
- 4 pair, solid annealed copper conductor with polyolefin insulation
- 1,000' Reel



Mfr. Model #	Category	Type	BOR Part #
04-001-55	CAT 5e	Armored	2673148
04-001-65	CAT 6	Armored	2926581
04-001-A5	CAT 6A	Armored	3535165

Wire and Cable

EnduraGain OSP Broadband BBD

BBD is an Outside Plant (OSP) unshielded Broadband category cable.

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- Unshielded
- PFM gel-filled core construction
- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Small robust, design
- Prevents intrusion of moisture and easily wipes clean during installation
- 4 pair, solid annealed copper conductor with polyolefin insulation
- 1,000' reel



Mfr. Model #	Category	Type	BOR Part #
04-001-58	CAT 5e	Unshielded UTP	2308226
04-001-68	CAT 6	Unshielded UTP	2692591

EnduraGain OSP Broadband Indoor/Outdoor Halogen-Free CM/CMX

BBD Indoor/Outdoor Halogen-Free is a CM/CMX rated category cable combining Outside Plant (OSP) Broadband features with an indoor application.

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- Dry block between armor and inner jacket
- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged shield provides protection against EMI/RFI and provides rodent resistance
- Prevents water ingress between armor and inner cable preventing damage to equipment
- 4 pair, solid annealed copper conductor with polyolefin insulation
- 1,000' reel



Mfr. Model #	Category	Type	Shield	BOR Part #
04-001-A3	CAT 6A	Armored Indoor/Outdoor	Copper-Clad Steel	3535166
04-001-63	CAT 6	Armored Indoor/Outdoor	Copper-Clad Steel	3380443
04-001-A2	CAT 6A	Shielded Indoor/Outdoor FTP	Coated Aluminum Tape	3535167
04-001-62	CAT 6	Shielded Indoor/Outdoor FTP	Coated Aluminum Tape	3535168

Category CMR/CMX Outdoor Sunlight Resistant Cables

Category 5e CMR/CMX Outdoor Sunlight Resistant cable is specifically designed for extreme sunlight and temperature applications.

- Combines indoor/outdoor applications into one product
- UL 444 sunlight resistant compliant
- Meets ANSI/TIA-568.2-D specifications
- Provides cost-effective solution
- 720 hour sunlight resistant specification
- Resists damage conditions that might weaken standard packages
- 4 pair, solid annealed copper conductor with polyolefin insulation
- Black jacket



Mfr. Model #	Type	Package	BOR Part #
51-240-E1	Indoor/Outdoor U/UTP	1,000' reel	3327540
77-246-E1	Indoor/Outdoor U/UTP	1,000' BrakeBox	3402866

Category CMR/CMX Outdoor Cables

Category 5e CMR/CMX Outdoor cable is specifically designed for outdoor applications.

- Combines indoor/outdoor rating
- Tough, weather resistant PVC jacket
- Meets ANSI/TIA-568-C.2 specifications
- Increases life of cable by providing low temperature hanging and UV resistance ; cable jacket resists cracking over time
- Reduces inventory by eliminating multiple cable types
- CAT 5e compliance
- 4 pair, solid annealed copper conductor with polyolefin insulation
- 1,000' Reel



Mfr. Model #	Type	Jacket Color	BOR Part #
51-240-11	Indoor/Outdoor U/UTP	Beige	169647
51-240-31	Indoor/Outdoor U/UTP	Gray	169565
77-246-31	Indoor/Outdoor U/UTP	Gray	3341302

Fiber Optic Products



Fiber Optic Solutions

Fiber Optic Products

Cleaning

One-Click® Cleaners

Easy one push action quickly and effectively clean the end-face of connectors on jumpers or through adapters.

- Precise mechanical action delivers consistent cleaning results
- Automatically advance ensures each clean is performed with fresh cleaning tape
- Low cost per clean



MFG #	Product	Connectors cleaned	Quantity of cleans	BOR #
8500-05-0001MZ	One-Click Cleaner	SC, ST, FC	500+	2406256
8500-05-0021MZ	One-Click Cleaner	SC, ST, FC - 5pk	500+	3504313
8500-05-0002MZ	One-Click Cleaner	MU/LC	500+	2406257
8500-05-0022MZ	One-Click Cleaner	MU/LC - 5pk	500+	3504314
8500-05-0004MZ	One-Click Cleaner	Outdoor connectors	500+	3172899
8500-05-0005MZ	One-Click Mini-100	SC, ST, FC	100+	3297835
8500-05-0025MZ	One-Click Mini-100	SC, ST, FC - 5pk	100+	3504316
8500-05-0006MZ	One-Click Mini-100	MU/LC	100+	3500334
8500-05-0026MZ	One-Click Mini-100	MU/LC - 5pk	100+	3504317
8500-05-0009MZ	One-Click Mini-500	SC, ST, FC	500+	3494724
8500-05-0010MZ	One-Click Mini-500	MU/LC	500+	3504311
8500-05-0007MZ	One-Click Ultra Cleaner	SC, ST, FC (enlarged cleaning) - 2pk	500+	3442045
8500-05-0008MZ	One-Click Cleaner	Duplex LC - 2pk	500+	3409566
8500-05-0030MZ	One-Click Cleaner	MPO/MTP	500+	3315201
8500-05-0013MZ	One-Click Cleaner	MPO/MTP-16	500+	3504312
8500-05-0023MZ	One-Click Cleaner	MPO/MTP-16 - 5pk	500+	3504315
8500-05-0018MZ	One-Click Cleaner	Hardened Optical Connectors	500+	3670115
8500-05-PRO-SC	One-Click Cleaner PRO	SC	775+	3637870
8500-05-PRO-LC	One-Click Cleaner PRO	LC	775+	3623106

CCT Connector Cleaning Tips

Uses a molded, sintered polymer that is both porous and pliable, conforming to virtually any fiber end-face polish geometry.

- Unlimited shelf life
- Dual-head design permits wet and dry cleaning in one swab
- Traps and holds liquid and particle contaminants in an absorbent open cell matrix ranging from 10-25 microns
- No fibers, binders, adhesives or outgassing that may contaminate the connector
- 40 cleaners per pack



MFG #	Description	BOR #
CCTP-25-0900MZ	For exposed 2.5 mm, 2.0 mm, 1.6 mm, 1.25 mm ferrules and termini (FC, SC, ST, LC, MU, etc., jumpers, male MIL T 29504/14 for MIL C 28876 and MIL T 29504/04 for MIL C 38999)	3505194
CCTS-12-0900MZ	For 1.25 mm ferrule in adapters or sockets (LC, MU, etc., in adapters)	3505196
CCTS-16-0900MZ	For MT-RJ connectors and 2.0 mm and 1.6 mm termini in sockets (female MIL T 29504/15 for MIL C 28876 and MIL T 29504/05 for MIL C 38999, MT-RJ both jumpers and adapters)	3505198
CCTS-25-0900MZ	For 2.5 mm ferrule in adapters or sockets (SC, FC, ST, etc. in adapters)	3505200
CCTX-MT-0910MZ	For Biconic and MT ferrule connectors both jumpers and in adapters (Biconic, MTP, MPO, MPX, etc.)	3505205

Cletop Optical Fiber Connector Cleaners

Rugged handheld tools for cleaning fiber optic connector end faces.

- Simple push-button shutter application
- Compact lightweight design
- Easily replaceable cost-effective tape cartridges
- Over 400 wipes per tape

Cletop Options:

- Cletop Series: Original
- Cletop-S Series: Second generation cleaner offering "Drop-in" replacement tape cartridge and ergonomic design
- Type A and -SA: Designed for single 2.5mm ferrules (SC, FC, ST, and D4)
- Type B and -SB: Cleans SC, SC2, FC, ST®, DIN, D4, MU, LC, MT, MPO/MTP® without pins



Mfr. Model #	Description	BOR Part #
Cletop Original Series		
8500-10-0011MZ	Cletop Type A with White Tape	3172898
8500-10-0027MZ	Cletop Type A with Blue Tape	2400952
8500-10-0014MZ	Cletop Type B with White Tape	2400956
8500-10-0028MZ	Cletop Type B with Blue Tape	2400954
8500-10-0033MZ	Cletop for MPO/MTP with pins (White Tape)	2400958
8500-10-0015MZ	Replacement Tape, Type A and B - White	2400961
8500-10-0012MZ	Replacement Tape, Type A and B - Blue	2400959
Cletop-S Series		
8500-10-0020MZ	Cletop-SA with Blue Tape	2400949
8500-10-0016MZ	Cletop-SB with White Tape	2400950
8500-10-0029MZ	Cletop-SB with Blue Tape	1980460
8500-10-0017MZ	Replacement Tape, Type S - White	2400951
8500-10-0021MZ	Replacement Tape, Type S - Blue	1980461

FCP Field Portable Connector Cleaning Kits

- Complete kits for cleaning SC, ST, FC, LC, MU, and MPO connectors
- Includes products for cleaning connectors on jumpers and through bulkhead adapters
- Includes wet and dry cleaning products to effectively clean a variety of contaminants
- Carrying case



Mfr. Model #	Description	BOR Part #
FCP2-00-0901	FCC2 cleaning fluid, FiberWipes, Cletop-SB, SC and LC One-Clicks, Debris Destroyer, MPO One-Click, Duffle Bag	3505784
FCP2-10-0900	FCC2 cleaning fluid, FiberWipes, Cletop-SB, SC and LC One-Clicks, Debris Destroyer, Duffle Bag	3535147

FCC2 Enhanced Formula Connector Cleaner and Preparation Fluid

A non-flammable, environmentally safe, residue free solvent engineered to easily remove contaminants from fiber optic end-faces and bare fiber.

- Not Hazardous/Not Regulated for all modes of transport, including air cargo
- Unique dispenser for use with AFL Connector Cleaning Tips and FiberWipes
- Safe on all surfaces including soft plastics
- Up To 400+ cleanings per can



Mfr. Model #	Description	BOR Part #
FCC2-00-0902	Enhanced Formula, (3 oz/85 g) Fiber Connector Cleaner and Preparation Fluid (1 can)	3245657
FCC2-00-0903	Enhanced Formula, (3 oz/85 g) Fiber Connector Cleaner and Preparation Fluid (case of 12 cans)	3275609

FCC3 Debris Destroyer® Fiber Cleaning Pen

Cleans fiber optic connectors and bare fiber. It can be used for controlled application of cleaning fluid to One-Click Cleaners, cassette cleaners, sticks and wipes.

- Removes dirt, dust, oils, and other debris
- Eliminates electrostatic charge
- Safe with plastic components



Mfr. Model #	Description	BOR Part #
FCC3-00-PEN1	Debris Destroyer — Fiber Optic Cleaning Pen (1 pen)	3472017

FiberWipes

Lift and trap common contaminants found in fiber optic installations. FiberWipes provide superior cleaning results from material that is stronger and more absorbent, yet softer than traditional cellulose wipes.

- Lint free
- Fully optical grade
- Robust and tear-resistant



Mfr. Model #	Description	BOR Part #
9000-03-0025MZ	FiberWipes — 90 Optical Quality Wipes Per Tub, (1 tub)	2650998
9000-03-0026MZ	FiberWipes — 90 Optical Quality Wipes Per Tub (1 case of 24 tubs)	3504410
9000-03-0027MZ	FiberAide 1 — 600 Lint Free Wipes For Single Use (12 bags of 50 wipes)	3401959

Fiber Optic Solutions

Fiber Optic Products

Cleaning

Kimtech Science™ Kimwipes™ Delicate Task Wipes

Delicate wipers for light-duty and precision cleaning.

- Easily wipe up liquids, dust and tiny particles and are designed for delicate tasks
- Feature one-at-a-time dispensing for minimized waste
- Anti-static dispensing system reduces lint and electrostatic discharge (for sensitive environments like labs)
- Each wiper is 4.4" x 8.4" and useful for polishing glassware, cleaning laboratory instruments and other delicate surfaces
- 280 wipers per box, 30 boxes per case, 8,400 wipers per case total



Mfr. Model #	Ply	Unit Size	BOR Part #
34120	1	8.4" x 4.4"	3547777

SqueakyKleen™

Fiber and copper gel filled cable cleaner.

- Effective cleaner: quickly cleans cable filling gel and flooding compounds
- Cleans IBP flooding compound; good for cleaning coax cable
- Fast gel cleaner: requires only two wipes and the fiber squeaks and fans
- No residue: nothing left to require a secondary alcohol wipe
- Industry tested: approved by users and manufacturers



Mfr. Model #	Description	Units Case	BOR Part #
TC-640	5-Gal SqueakyKleen™ Telcom Cleaner	1	3002846
TC-D300	300-Count SqueakyKleen™ Wipe Canister	6	3164632
TC-1	SqueakyKleen™ Telcom Cleaner-Saturated Wipe	144	2702979
TC-128	Gal SqueakyKleen™ Telcom Cleaner	4	2979284
TC-16LF	16-Oz SqueakyKleen™ Telcom Cleaner w/ Flip Top	12	3002871
TC-35LF	Qt SqueakyKleen™ Telcom Cleaner w/Flip Top	12	2979286
TC-35LR	Qt SqueakyKleen™ Telcom Cleaner w/ Sprayer	12	2979287

Type FO™ Alcohol Fiber Optic Cleaner

- Excellent solvency: removes oil, dust and other contaminants
- 99.8% anhydrous isopropyl water-free for fiber optic cleaning
- Large cleaning wipe: 5" x 8" wipe means longer working time and more cleaning per wipe
- No residue: no interference with light transmission
- Fast evaporating: minimal delay before continuing with job



Mfr. Model #	Description	Units/Case	BOR Part #
FO-1	Type FO™ Isopropyl Alcohol Prep Wipe	50	1408970
FO-128	1-Gal Type FO™ Isopropyl Alcohol Fiber Cleaner	4	2321864
FO-16	16-Oz Type FO™ Isopropyl Alcohol Fiber Cleaner	12	1470655
FO-2LP	2-Oz Refillable Spray Type FO™ Isopropyl Alcohol	12	3002896
FO-32	32-Oz Type FO™ Isopropyl Alcohol Fiber Cleaner	12	1470656
FO-8LF	8-Oz Refillable Bottle Type FO™ Isopropyl Alcohol	12	3002897

AquaKleen™

Water-based fiber optic cleaner.

- Nonflammable: safe to use
- Nonhazardous for shipment: no restrictions via land or air shipping
- Maintains equipment: prolongs the life of costly fiber-splicing units by cleaning heat strippers V-grooves, and camera lenses
- No toxic solvent fumes: no irritating solvent vapor exposure
- Made with pure deionized water: no residue after evaporation to affect light transmission



Mfr. Model #	Description	Units Case	BOR Part #
AQ-2LP	AquaKleen™ Type AQ™ 2-Oz Finger Sprayer	12	3002915
AQ-KIT2	AquaKleen™ Kit with Finger Sprayer	1	3002917

Microfiber Towels

These lint-free towels can be used to clean ferrules, bulkheads and fiber endfaces.

- Versatile: use DT towels to apply AquaKleen
- Non-linting: DT towels are non-linting
- Multi-use: clean ferrules, bulkheads and fiber endfaces
- Highly absorbent



Mfr. Model #	Description	Units Case	BOR Part #
DT-D175	175-Towel FiberKleen™ Dispenser w/Cleaning Pad	12	3002916
DT-D50	50-Count FiberKleen™ Dry Towel Canister	8	2729046

Connectors and Connector Kits

FASTConnect® Field-Installable Connectors

- Pre-polished, field-installable connectors completely eliminate the need for hand polishing in the field
- Proven mechanical splice technology ensuring precision fiber alignment, a factory pre-cleaved fiber stub and a proprietary index-matching gel combine to offer an immediate low loss termination to either single-mode or multimode optical fibers
- No epoxy, no polish connector
- Fiber can be reinserted up to three times
- VFI accessory to confirm proper installation



Mfr. Model #	Description	Insertion Loss (Average)	Insertion Loss (Maximum)	Return Loss at Room Temp. (Average)	Return Loss at Room Temp. (Maximum)	Operating Temperature	BOR Part #
FAST-LC-SM-100	FAST-LC, ZR, SM, Pre-Polished, 900UM, Pack of 100	0.2dB	0.5dB	-50dB	-45dB	-40° to +75° C	3492670
FAST-LC-SM-6	FAST-LC, ZR, SM, Pre-Polished, 900UM, Pack of 6	0.2dB	0.5dB	-50dB	-45dB	-40° to +75° C	3274968
FAST-SC-SM-100	FAST-SC, ZR, SM, Pre-Polished, 900UM, Pack of 100	0.2dB	0.5dB	-50dB	-45dB	-40° to +75° C	2868506
FAST-SC-SM-6	FAST-SC, ZR, SM, Pre-Polished, 900UM, Pack of 6	0.2dB	0.5dB	-50dB	-45dB	-40° to +75° C	2789615
FAST-SC-SMAU-100	FAST-SC, ZR, SM, Angle-Flat Polished, 900UM, Pack of 100	0.3dB	0.6dB	-55dB	-50dB	-40° to +75° C	3505676
FAST-SC-SMAU-6	FAST-SC, ZR, SM, Angle-Flat Polished, 900UM, Pack of 6	0.3dB	0.6dB	-55dB	-50dB	-40° to +75° C	3015615

Field Installable Tool Kits and Accessories for FASTConnect® and FUSEConnect®

Tool kits and accessories are available for the termination of various FASTConnect and FUSEConnect field installable connectors.

- Compact design, flexible yet rugged carrying case



Mfr. Model #	Description	Compatibility	BOR Part #
FUSE-AC-KT	FUSEConnect Accessory Kit	Compatible with FUSEConnect Single-Fiber Connectors	3506577
FUSE-TL-KT	FUSEConnect Tool Kit	Compatible with FUSEConnect Single-Fiber Connectors	3506630
FUSE-ST-TL	FUSEConnect Stripping Tool (3.0mm, 2.8mm, 2.0mm, and 1.6mm)	Compatible with FUSEConnect Single-Fiber and Multi-Fiber Connectors	3506629
FUSEMPO-TL-KT	FUSEConnect MPO Tool Kit	Compatible with FUSEConnect Multi-Fiber Connectors	3506608
CS001201	FASTConnect High Precision Tool Kit with CT50 Cleaver	Compatible with FASTConnect Single-Fiber Connectors	3385270
CS010975	FASTConnect High Precision Tool Kit with CT16 Cleaver	Compatible with FASTConnect Single-Fiber Connectors	3505432

Fiber Optic Solutions

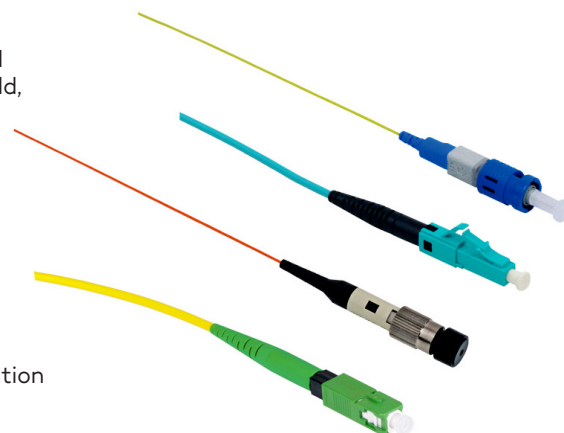
Fiber Optic Products

Connectors and Connector Kits

FUSEConnect® Splice-on Connectors

The factory pre-polished ferrule eliminates the need for polishing, adhesives and crimping in the field, utilizes a fusion splicer to terminate the connector in the field, addressing the loss concerns present in analog optical networks.

- Field installable
- No adhesives, crimping or polishing
- True APC performance
- Heat sleeve style splice protector design
- Compatible with Fujikura fusion splicers and most fiber holder-based fusion splicing platforms
- FUSEConnect MPO utilizes RT-02 ribbonizing tool for glueless ribbon termination



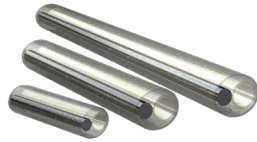
Mfr. Model #	Description	Insertion Loss (Average)	Insertion Loss (Maximum)	Return Loss at Room Temp. (Maximum)	Operating Temperature	BOR Part #
FUSE-LC2SMA-6	FUSEConnect, LC, APC, SM, 2.0mm, Pack of 6, Green Housing	0.15dB	0.25dB	-65dB	-40° to +75° C	3506598
FUSE-LC2SMU-6	FUSEConnect, LC, UPC, SM, 2.0mm, Pack of 6, Blue Housing	0.15dB	0.25dB	-55dB	-40° to +75° C	3291236
FUSE-LC9SMA-6	FUSEConnect, LC, APC, SM, 900um, Pack of 6, Green Housing	0.15dB	0.25dB	-65dB	-40° to +75° C	3438412
FUSE-LC9SMU-6	FUSEConnect, LC, UPC, SM, 900um, Pack of 6, Blue Housing	0.15dB	0.25dB	-55dB	-40° to +75° C	3305785
FUSE-SC3SMA-6	FUSEConnect, SC, APC, SM, 3.0mm, Pack of 6, Green Housing	0.15dB	0.25dB	-65dB	-40° to +75° C	3404146
FUSE-SC3SMU-6	FUSEConnect, SC, UPC, SM, 3.0mm, Pack of 6, BLUE HOUSING	0.15dB	0.25dB	-55dB	-40° to +75° C	3506617
FUSE-SC9SMA-6	FUSEConnect, SC, APC, SM, 900um, Pack of 6, Green Housing	0.15dB	0.25dB	-65dB	-40° to +75° C	3321754
FUSE-SC9SMU-6	FUSEConnect, SC, UPC, SM, 900um, Pack of 6, Blue Housing	0.15dB	0.25dB	-55dB	-40° to +75° C	3204290



Consumables

Splice Protection Sleeves

- Heat shrinkable protection sleeves for a variety of fiber counts
- Various length and size options for different application needs
- Stainless steel strength member for single fiber sleeves and Quartz for ribbon sleeves



Mfr. Model #	Description	BOR Part #
S003027	FP-5 12 Fiber Ribbon Splice Protection Sleeve	3446102
S015915	FP-60 60mm Single Fiber Protection Sleeve	3486700
S015916	FP-40 40mm Single Fiber Protection Sleeve	3507713
S018262	FP-40 40mm Single Fiber Slim Protection Sleeve	3652219
S018263	FP-60 60mm Single Fiber Slim Protection Sleeve	3652220

SMOUV Splice Protectors

- Provide mechanical and environmental protection
- Optimal design for simple and correct fiber balance
- Hot melt adhesive specially developed for optimal flow
- Transparent heat shrink tube for simple installation verification
- Short installation cycle
- Compatible with most common ovens



Mfr. Model #	Description	Length	BOR Part #
369305-000	SMOUV-1120-01, Splice Sleeve	61 mm (2.402 in)	Call
757849-000	SMOUV-1120-R2/12-02, Splice Sleeve	42 mm (1.654 in)	2716367

Fiber Optic Splice Sleeve 2170

- Transparent plastic tube and stainless steel rod designed to help prevent stress and protect fusion fiber optic splices in field and factory operations



Mfr. Model #	Size	Package	BOR Part #
80610281380	3.0 x 60 mm	50 Each	167349

Fiber Optic Tools

CT50 Fiber Cleaver

Speed, simplicity, and hassle-free maintenance in a fiber cleaver.

- Bluetooth communication with splicer for blade-life tracking
- Automated scrap collector
- Field replaceable blade and cleaver pads
- Motorized blade rotations and thumb-wheel height changes
- Shock resistant up to 30" and 6 drop orientations

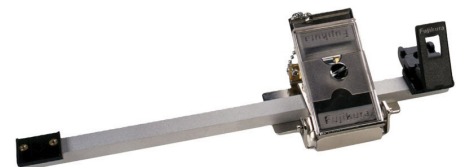


Mfr. Model #	Description	BOR Part #
S017030	CT50 Fiber Cleaver	3507747

Ribbonizing and Termination Tools

Quickly form temporary ribbons for mass fusion splicing.

- Traditional ribbonizing of 250µm fibers with adhesive using the FAT-04
- Glue-less ribbonizing with RT-02 for 200µm and 250µm fibers



Mfr. Model #	Description	BOR Part #
S017465	RT-02 Ribbonizing Tool	3535148
S010212	FAT-04 Fiber Arrangement Tool	3440805

FAT-04 Ribbonizing Tool Consumables

- 0.5L of Ribbonizing adhesive
- 4oz. of Ribbonizing adhesive
- Sponges for adhesive absorption for FAT-04
- Paste applicator block for FAT-04



Mfr. Model #	Description	BOR Part #
S008622	FAA-03 0.5L	3507567
S008720	FAA-03 4oz.	3440806
S009016	SP-1 Sponges	3453567
S010952	PAB-01 Applicator Block	3507575

Fiber Optic Solutions

Fiber Optic Products

Fiber Optic Tools

Splicing Equipment Cleaning Supplies

- V-groove cleaning kit for any splicer, but necessary for fixed V-grooves such as mass fusion splicers
- V-groove cleaning brush
- V-groove cleaning kit refill



Mfr. Model #	Description	BOR Part #
S014397	V-groove Cleaning Kit	3408844
S016416	VCB-01 Brush	3507724

Fiber Optic Drop Cable Slitters

FOD-2000

Open cable jackets, mid-span or end run. Choose FOD-2000 for flat drop cable or FOR-3000 for round cable.

- Slits 0.250" flat drop cables as well as various other cables such as Super Essex Communications Series 6U, 6T tonable, W7, W7 tonable, 6U 24F, and 6T 24F tonable flat drop cables
- Slits flat cables 0.305" to 0.350" wide and 0.155" to 0.185" high, typically found in Corning SST-Drop flat cables with a jacket thickness of 0.03" to 0.04"
- Slits both sides of the jacket simultaneously, allowing easy access to fiber or strength members
- Can separate the jacket and strength members from the buffer tube leaving fiber undamaged
- Two reversible blades come preassembled and can be reversed when worn for double life

FOR3000

Opens open round fiber optic cable jackets from 9 mm to 19 mm in diameter. Slits cables with outer diameter from 9 mm to 19 mm.

- Provides easy fiber access for both mid span and end of cables
- Ability to slit and ring all in one tool
- Works on light armored cables also
- Blade is easily replaceable with replacement blade: FOR-3000RB



Mfr. Model #	Description	BOR Part #	Repl Blade Mfr. Model #	Repl Blade BOR Part #
FOD-2000	Fiber Optic Drop Cable Slitter	3024246	FOD-RB25	2783865
FOR-3000	Fiber Optic Round Cable Slitter	3512781	FOR-3000RB	3512782

Fiber Drop Cable Stripper

Designed to strip FTTH drop cables sized 3.1 mm by 2.0 mm, this drop cable stripper strips the outer jacket of drop cables and cuts the strength members to expose the fiber inside.

- Works on cables with FRP or steel strength members
- Removes the outer jacket without damaging or nicking the fiber
- Non-slip ergonomic handle helps prevent hand grip fatigue
- Fiber support is scaled to help determine strip length



Mfr. Model #	Description	BOR Part #
FDS-312	Fiber Drop Cable Stripper	3512778

Duct Cutters

Designed to create quick, clean, and straight cuts in fiber ducts made from PVC, CPVC, HDPE, and other plastic tubing. Both models feature triangular blade that delivers square and straight cuts by holding the tubing in place, and safety lock.

Microduct Cutter

- Cuts up to 28mm dia.
- Spring-loaded jaws make it quick and easy to use
- Carbon steel blade with black oxide finish is durable and easily replaceable
- Molded ribbed grips for comfort and secure holding

Large Fiber Duct Cutter

- Cuts up to 64mm
- Ratcheting design provides high amount of leverage to facilitate cutting with minimal effort
- Comfortable one-handed operation with included easy open release
- Die cast aluminum alloy body and stainless steel cutting blade provide long life and durability
- Blades can be sharpened to maintain cutting performance using our KSS-1 Knife Scissor Sharpener



Mfr. Model #	Description	BOR Part #	Repl Blade Mfr. Model #	Repl Blade BOR Part #
MDC-28	Microduct Cutter	3512786	MDC-28RB	3512787
MDC-64	Large Fiber Duct Cutter	3437030	N/A	N/A

Mid-Span Slitters and Riser Slitters

- MS-26 Mid-Span Slitter provides easy access to optical fibers in outer jackets and loose buffer tubes; five precision grooves from 2.9 to 6.8 mm
- Mid-Span Slit and Ring Tools available in variety of sizes for slitting and ringing different types and sizes of cable
- RST-8514 shaves longitudinal access window in round FTTH riser cables 8 to 14 mm



Mfr. Model #	Description	BOR Part #	Repl Blade Mfr. Model #	Repl Blade BOR Part #
MS-26	Mid Span Slitter (2.9 mm-6.8 mm)	3444387	MSB-2968	3512795
MS-306	Mid Span Slit and Ring Tool (1.2 mm-3.3 mm)	3512788	MS-306RB	3512789
MS-316	Mid Span Slit and Ring Tool (2.9 mm-6.8 mm)	3512790	MS-316RB	3512791
MS-326	Mid Span Slit and Ring Tool (5 mm-10 mm)	3444388	MSB-5010	3512796
MS-336	Mid Span Slit and Ring Tool (7.9 mm-11 mm)	3545868	MS-336RB	3546468
MS-426	Mid Span Slit and Ring Tool (5.8 mm-12 mm)	3512792	MS-426RB	3512793
MS-526	Mid Span Slit and Ring Tool (9.8 mm-18.2 mm)	3545869	MS-526RB	3546469
MS-6	Mid Span Slitter (1.2 mm-3.3 mm)	3240190	MSB-1533	3512794
RST-8514	Riser Slitting Tool	3512799	N/A	N/A

Strippers and Tube Ringers

- JIC-125 strips 250µm buffer coating to expose the 125µm optical fiber in fiber optic cables without damaging the fiber
- JIC-375 Three Hole Fiber Optic Stripper strips the 1.6 mm-3.0 mm fiber cable jacket, 600-900 micron buffer coating, and 250 micron acrylate coating to expose the 125 micron glass fiber
- BTR-6 provides quick access to fibers inside buffer tubes up to 6 mm in diameter and works with wall thickness up to 1mm



Mfr. Model #	Description	BOR Part #
JIC-125	Fiber Optic Stripper	3318415
JIC-375	Fiber Optic Stripper, Three Hole	2403640
BTR-6	Buffer Tube Ringer	3512775

Fiber Connector Tool for LC, SC Connectors

- Designed for use on LC and SC simplex and duplex connectors, this tool is perfect for inserting and extracting fiber optic connectors in high density patch panels
- Bent nose jaws can be used to insert or remove simplex or duplex LC and SC connectors
- Works with LC and SC simplex and duplex connectors as well as with MU, MT-RJ, and other similar type connectors
- Spring-loaded design with dual component thermoplastic rubber TPR grips for maximum comfort and control
- Rubber protected jaws safely secure and grip connectors without damaging them



Mfr. Model #	Description	Size	BOR Part #
FCT-100	Fiber Connector Tool for LC, SC Connectors	10.6" (269.2 mm)	3545825

Fluid Dispenser for Fiber Cleaning 220mL

- Holds up to 220 mL of isopropyl alcohol or other cleaning fluids
- Twist-lock pump can be locked/unlocked with a simple twist
- Spill-proof lid holds fluid securely, preventing waste from spills and leaks
- Easy-to-use pump delivers a controllable amount of fluid with each press



Mfr. Model #	Description	BOR Part #
FD-220	Fluid Dispenser for Fiber Cleaning 220mL	3545828

Fiber Scraps Disposal Can

- Allows safe disposal of cleaved fiber ends
- Twist lock cover locks scraps in the disposal can for safe and easy disposal
- Disposal can has a 2 oz capacity with a paperboard body and plastic top and bottom
- Lightweight design to accommodate any tool kit or splice/connector station



Mfr. Model #	Description	BOR Part #
FDC-66	Fiber Scraps Disposal Can	3545827

Fiber Optic Solutions

Fiber Optic Products

Fiber Optic Tools

QuickSleever™

- Designed to make loading protection sleeves onto fiber quick and easy, the PSI-15 QuickSleever tool is ideal for aligning fiber to the holes of protection sleeves
- Conical fiber feed surface guides fiber directly to protection sleeve (patent pending)
- Facilitates fiber loading by providing a guide for the fiber to load right into the protection sleeve
- Holds up to 15 protection sleeves, each ranging from 1.57" to 2.36" (40 mm to 60 mm) long
- When one sleeve is loaded and removed, another automatically falls into place



Mfr. Model #	Description	Size	BOR Part #
PSI-15	QuickSleever™	2.6"	3545824

Round Cable Strip and Ring Tool

Designed for fast and precise removal of cable jackets from round cables that are 3/16" to 1-1/8" (4.5 mm-29 mm) in diameter.

- Patented stripping mechanism provides a "spiral stripping mode" to strip and remove tough insulations
- Can cut through a variety of jacket materials such as PVC, rubber, PE and many more
- Triple action design as it can make longitudinal cuts for end stripping, spiral cuts for end and mid span stripping and circular cuts for jacket removal
- Spring-loaded blade can be rotated 90 degrees for versatile slitting and can be adjusted for multiple round cable sizes from 3/16" to 1-1/8" (4.5 mm-29 mm) in diameter
- Replacement blade is available (part #: CST-7915)



Mfr. Model #	Description	BOR Part #	Repl Blade Mfr. Model #	Repl Blade BOR Part #
CST-1900	Round Cable Strip and Ring Tool	3284008	CST-7915	3405454

Ratcheting Duct and Cable Slitter

Perfect tool for slitting and ringing cables or ducts greater than 25 mm in diameter. Unique blade penetrates duct walls up to 5 mm thick, allowing you to make mid-span window cuts in cables and ducts.

- Fixed jaws and ratcheting feature make it easy to grip and slit heavy-duty cable and cut into ducts at midspan
- Slits and rings cable made of PVC, PE, rubber and other jacket materials
- Replaceable double-ended blade has an adjustable cutting depth of 0 to 5 mm (0" to 0.20")
- 10 mm, 20 mm, 30 mm ruler marked on tool for accurate and precise slitting lengths
- Perfect for mid-span or end cable slitting and ringing



Mfr. Model #	Description	BOR Part #
RCS-30	Ratcheting Duct and Cable Slitter	3545870

Fiber Optic Tool Kits

Assorted handy kits for the tools you use most often.



Mfr. Model #	Description	BOR Part #
TK-105	Fiber Optic Mid Span Slit and Ring Tool Kit	3512800
TK-121	Fiber Prep Kit+	3545866
TK-170	Fiber Prep Kit with Small and Large Mid Span Slitters	3512802
TK-325	Aramid Yarn Scissor and Pouch Kit	3512803

Fusion Equipment

Fujikura Fusion Splicers

- Family of splicers managing cleaver maintenance and upkeep tasks
- Broad range of applications from long-haul network installation to access network repair, and from field fiber terminations to optical module assembly
- Ruggedized for shock, vibration, moisture and dust resistance to handle strenuous field conditions
- Long battery, electrode, and blade lives for extended field use without downtime

Fujikura 45S

- Active Cladding alignment for operator ease-of-use
- Cleaver management and tracking with wireless communication
- Warm Splice Imaging for enhanced loss estimation accuracy



Fujikura 90R

- Replaceable V-grooves for application versatility and splicer up-time
- Increased splice speed with automated wind protector, tube heater and splice start
- Universal operation for 200µm and 250µm Spider Web Ribbon

Fujikura 90S+

- Highest level of automated features to include sheath clamps
- Loose and tight buffer fiber with same sheath clamp
- Broadest range of application capabilities of any field splicer type



Mfr. Model #	Description	BOR Part #
SO18318	Fujikura 45S Fusion Splicer Kit	3629335
SO18319	Fujikura 45S Fusion Splicer Kit Without Cleaver	3629336
SO17509	Fujikura 90R	3507788
SO17511	Fujikura 90R Kit with CT50 RS03	3507789
SO17519	Fujikura 90S+	3507792
SO17521	Fujikura 90S+ Kit with CT50	3507793

Fusion Splicing Accessories

Common accessories to increase splicing capabilities.



Mfr. Model #	Description	BOR Part #
SO17111	FH-70-250, 250µm Single Fiber Holder	3507768
SO17113	FH-70-900, 900µm Single Fiber Holder	3507770
SO17119	FH-70-12, 12 Fiber Ribbon Holder	3507776
SO14536	ACC-14 AC, Power Cord for Use With ADC-20 Adapter for 90 Series	2971258
SO17512	BTR-15, Battery Pack for 90 Series	3507790
SO17513	ADC-20, AC Adapter for 90 Series	3507791

PON Components

Fiber Splitter Modules

Plug and play splitter modules used in enclosures and pedestals to split the optic signal in passive optical networks.

- Multiple configurations
- Works in a variety of Charles solutions
- Allows scale up builds



Mfr. Model #	Ports	Drop Leg Insertion Loss (dB max)	Pass-Thru Leg Insertion Loss (dB max)	BOR Part #
CFSM-MFT230700A	2 Tap	6.3	6.0	3399798
CFSM-MFT240600A	2 Tap	7.0	4.6	3399797
CFSM-MFT260400A	2 Tap	8.9	2.8	3399796
CFSM-MFT270300A	2 Tap	10.2	2.0	3399795
CFSM-MFT280200A	2 Tap	12.0	1.4	3399794
CFSM-MFT286140A	2 Tap	13.6	1.0	3399843
CFSM-MFT290100A	2 Tap	15.1	0.8	3396891
CFSM-MFT294060A	2 Tap	17.5	0.6	3396913
CFSM-MFT295050A	2 Tap	18.4	0.5	3396890
CFSM-MFT297030A	2 Tap	21.2	0.4	3399793
CFSM-MFT2XXXX0A	2 Tap	4.2	TERM.	3399844
CFSM-MFT430700A	4 Tap	9.7	6.0	3399804
CFSM-MFT450500A	4 Tap	11.3	3.6	3399803
CFSM-MFT460400A	4 Tap	12.3	2.8	3399802
CFSM-MFT470300A	4 Tap	13.6	2.0	3399801
CFSM-MFT480200A	4 Tap	15.4	1.4	3396892
CFSM-MFT488120A	4 Tap	17.3	1.0	3396914
CFSM-MFT490100A	4 Tap	18.7	0.8	3399800
CFSM-MFT495050A	4 Tap	21.3	0.6	3399799
CFSM-MFT4XXXX0A	4 Tap	7.4	TERM.	3399845
CFSM-MFT840600A	8 Tap	13.2	4.6	3399809
CFSM-MFT850500A	8 Tap	14.3	3.6	3399808
CFSM-MFT870300A	8 Tap	16.6	2.0	3399807
CFSM-MFT875250A	8 Tap	17.3	1.6	3399846
CFSM-MFT880200A	8 Tap	18.4	1.4	3399806
CFSM-MFT890100A	8 Tap	21.7	0.8	3399805
CFSM-MFT8XXXX0A	8 Tap	10.7	TERM.	3399847

Fiber Optic Solutions

Fiber Optic Products

PON Components

Fiber Splitter Tray

Benefits of a splitter embedded in a splice tray.

- Multiple configurations
- Grow as you go

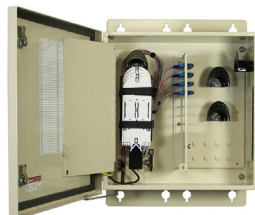


Mfr. Model #	Ports	Drop Leg Insertion Loss (dB max)	Pass-Thru Leg Insertion Loss (dB max)	BOR Part #
CFST-AFT2307000	2 Tap	6.3	6.0	3449627
CFST-AFT2406000	2 Tap	7.0	4.6	3449626
CFST-AFT2604000	2 Tap	8.9	2.8	3449624
CFST-AFT2703000	2 Tap	10.2	2.0	3449623
CFST-AFT2802000	2 Tap	12.0	1.4	3449622
CFST-AFT2861400	2 Tap	13.6	1.0	3449620
CFST-AFT2901000	2 Tap	15.1	0.8	3449619
CFST-AFT2940600	2 Tap	17.5	0.6	3449618
CFST-AFT2950500	2 Tap	18.4	0.5	3449617
CFST-AFT2970300	2 Tap	21.2	0.4	3449616
CFST-AFT2XXXX00	2 Tap	4.2	TERM.	3450968
CFST-AFT4307000	4 Tap	9.7	6.0	3449637
CFST-AFT4505000	4 Tap	11.3	3.6	3449636
CFST-AFT45550A	4 Tap	10.7	4.1	3450375
CFST-AFT4604000	4 Tap	12.3	2.8	3449635
CFST-AFT4703000	4 Tap	13.6	2.0	3449634
CFST-AFT4802000	4 Tap	15.4	1.4	3449633
CFST-AFT4881200	4 Tap	17.3	1.0	3449632
CFST-AFT4901000	4 Tap	18.7	0.8	3449631
CFST-AFT4950500	4 Tap	21.3	0.6	3449630
CFST-AFT4XXXX00	4 Tap	7.4	TERM.	3450969

Fiber Interface Terminal

Compact NEMA rated enclosure for extending PON networks — works as a lower count splitter hub.

- Configurable to customer requirements
- Scale up build by adding modules
- Plug and play sensibility



Mfr. Model #	Description	BOR Part #
CFIT-FC12A2PF01	CFIT-Flex Compact, 12 Ports, SC/APC, 2 Splice Trays, Single Medium 1.00" Conduit Fitting, 12 Grommets (5mm dia. cables), Swing-Out Bulkhead	3399860

WaveSmart® Premium Ruggedized Splitters

Addresses environmental and human handling issues that other standard splitters cannot combat — with improved fiber protection, management and maintenance in OSP FTTx deployments.

- Terminations are designed and tested to T elcordia GR-326
- 100% performance tested for insertion loss, return loss and final mechanical inspection
- Optical component configuration uses devices that are compliant to Telcordia GR 1221/1209
- Ruggedized jacket material of input and output legs provide superior flexibility in temperatures ranging from -55°C to 85°C (-67°F to 185°F)
- Splitters legs come preloaded in staging plate for easy access and turn-up
- Fiber separators every 17" (431.8mm) to easily recognize and prevent twisting of fiber legs
- Each leg is 51" (1295.4mm) long and able to reach any port
- Red boot on input leg
- Splitter package supports one 1 x 32, two 1 x 16 or four 1 x 8 configurations without penalty in real estate or port counts
- Red boot on input leg



Mfr. Model #	Description	BOR Part #
Ruggedized Splitter Module with SC/APC Connectors, Front Pigtail Input(s) and Outputs, Bend-Insensitive Fiber, Ruggedized Jacket — 2.0mm O.D. Singlemode Fiber (G.657.A), 100mm L x 80mm W x 10 mm H		
KC1-CAA	With 1 x 32 Splitter, <16.8 dB Insertion Loss	3452460
KC4-CAA	With 1 x 16 Splitter, <13.8 dB Insertion Loss	3538880
KC5-CAA	With 1 x 8 Splitter, <10.8 dB Insertion Loss	3538881
KC8-CAA	With 1 x 4 Splitter, <7.5 dB Insertion Loss	3538882

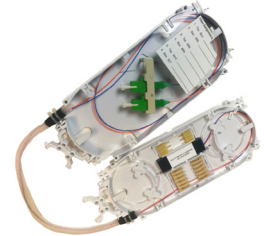
Fiber Tap Closures

- Rural Taps expand FOSC 450 capabilities, providing cabling flexibility and simplifying installations
- The FOSC 450 tap bundle includes the environmentally gel-sealed closure and a tap module with two trays



FOSC 450 Tap Trays

- Rural Tap trays consist of two connected FOSC trays: a splice tray containing the tap device, and one containing the output connectors and connector bulkhead
- Rural Tap trays can also be ordered separately, without the closure, to add new functionality to an existing FOSC 450 closure, or for stocking purposes



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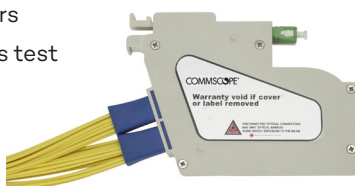
Mfr. Model #	Description	Tap Ports	dB	BOR Part #
155632-000	FOSC450-A4-4-TAP-4P-10, OSP	4	10	3413178
162761-000	FOSC450-A4-4-TAP-2P-19, OSP	2	19	3408220
221981-000	FOSC450-A4-4-TAP-2P-05, OSP	2	5	3408221
376281-000	FOSC450-A4-4-TAP-4P-13, OSP	4	13	3408222
398512-000	FOSC450-A4-4-TAP-2P-07, OSP	2	7	3408223
422658-000	FOSC450-B6-6-TAP-8P-17, OSP	8	17	3408224
423544-000	FOSC450-A4-4-TAP-4P-17, OSP	4	17	3408225
443374-000	FOSC450-A4-4-TAP-2P-14, OSP	2	14	3408226
461411-000	FOSC450-B6-6-TAP-8P-15, OSP	8	15	3408227
518463-000	FOSC450-A4-4-TAP-2P-17, OSP	2	17	3408228
533437-000	FOSC450-B6-6-TAP-8P-19, OSP	8	19	3408229
533785-000	FOSC450-A4-4-TAP-4P-21, OSP	4	21	3408230
559456-000	FOSC450-A4-4-TAP-2P-10, OSP	2	10	3408231
586756-000	FOSC450-A4-4-TAP-4P-15, OSP	4	15	3408232
615379-000	FOSC450-A4-4-TAP-2P-15, OSP	2	15	3408233
644487-000	FOSC450-A4-4-TAP-4P-07T, OSP	4	7	3408234
652236-000	FOSC450-B6-6-TAP-8P-14, OSP	8	14	3408235
657662-000	FOSC450-A4-4-TAP-2P-12, OSP	2	12	3408236
691383-000	FOSC450-A4-4-TAP-2P-21, OSP	2	21	3408237
795423-000	FOSC450-B6-6-TAP-8P-12, OSP	8	12	3408238
813678-000	FOSC450-A4-4-TAP-2P-08, OSP	2	8	3408239
833662-000	FOSC450-B6-6-TAP-8P-21, OSP	8	21	3408240
877793-000	FOSC450-B6-6-TAP-8P-11T, OSP F	8	11	3408241
951773-000	FOSC450-A4-4-TAP-4P-09, OSP	4	9	3408243
962525-000	FOSC450-A4-4-TAP-2P-04T, OSP	2	4	3408244
971541-000	FOSC450-A4-4-TAP-4P-11, OSP	4	11	3408245

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Mfr. Model #	Description	Ports	dB	BOR Part #
760235456	FOSC-ACC-A/B-TRAYTAP-2P-10, OSP	2	10	3408246
760235457	FOSC-ACC-A/B-TRAYTAP-2P-12, OSP	2	12	3408247
760235458	FOSC-ACC-A/B-TRAYTAP-2P-14, OSP	2	14	3408248
760235459	FOSC-ACC-A/B-TRAYTAP-2P-15, OSP	2	15	3408249
760235460	FOSC-ACC-A/B-TRAYTAP-2P-17, OSP	2	17	3408250
760235461	FOSC-ACC-A/B-TRAYTAP-2P-19, OSP	2	19	3408251
760235462	FOSC-ACC-A/B-TRAYTAP-2P-21, OSP	2	21	3408252
760235463	FOSC-ACC-A/B-TRAYTAP-2P-04T, OSP	2	4	3408253
760235464	FOSC-ACC-A/B-TRAYTAP-2P-05, OSP	2	5	3408254
760235465	FOSC-ACC-A/B-TRAYTAP-2P-07, OSP	2	7	3408255
760235466	FOSC-ACC-A/B-TRAYTAP-2P-08, OSP	2	8	3408256
760235467	FOSC-ACC-A/B-TRAYTAP-4P-10, OSP	4	10	3408257
760235468	FOSC-ACC-A/B-TRAYTAP-4P-11, OSP	4	11	3408258
760235469	FOSC-ACC-A/B-TRAYTAP-4P-13, OSP	4	13	3408259
760235470	FOSC-ACC-A/B-TRAYTAP-4P-15, OSP	4	15	3408260
760235471	FOSC-ACC-A/B-TRAYTAP-4P-17, OSP	4	17	3408261
760235472	FOSC-ACC-A/B-TRAYTAP-4P-19, OSP	4	19	3408262
760235473	FOSC-ACC-A/B-TRAYTAP-4P-21, OSP	4	21	3408263
760235474	FOSC-ACC-A/B-TRAYTAP-4P-07T, OSP	4	7	3408264
760235475	FOSC-ACC-A/B-TRAYTAP-4P-09, OSP	4	9	3408265
760235476	FOSC-ACC-A/B-TRAYTAP-8P-11T, OSP	8	11	3408266
760235477	FOSC-ACC-A/B-TRAYTAP-8P-12, OSP	8	12	3408267
760235478	FOSC-ACC-A/B-TRAYTAP-8P-14, OSP	8	14	3408268
760235479	FOSC-ACC-A/B-TRAYTAP-8P-15, OSP	8	15	3408269
760235480	FOSC-ACC-A/B-TRAYTAP-8P-17, OSP	8	17	3408270
760235481	FOSC-ACC-A/B-TRAYTAP-8P-19, OSP	8	19	3408271
760235482	FOSC-ACC-A/B-TRAYTAP-8P-21, OSP	8	21	3408272

Plug-and-Play Splitter Module

- Rugged packaging is built for high performance, while the Plug-and-Play design reduces installation time
- Bend-optimized fiber and ruggedized extreme temperature cabling
- Easy to insert and remove without affecting adjacent splitters
- Reversible dust cap makes test and turn-up easy
- 1 x 32



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Mfr. Model #	Description	BOR Part #
FPS-MPP1AJJ	FDH Plug and Play 1X32 Splitters SC/APC	3413178

Fiber Optic Solutions

Fiber Optic Products

Splice Cases and Terminals

Apex® X-2 / X-2S Sealed Splice Closures

The Apex X-2S is a sealed splice closure designed for protecting optical fiber splices in both above- or below-grade applications in a butt configuration.

- Individual cable sealing ports with tool-less release mechanism and gel sealing
- Hinging, lockable splice trays
- Plastic slack storage basket with convenient multiple tie-down points with Velcro or tie wraps
- Six cable ports with up to six ground lugs
- Capable of up to 16 drop cables with an expressed distribution cable using multi-drop entry kits
- Splice trays with universal splice modules capable of holding single fusion, mass fusion and mechanical splices as well as other devices such as passive optical splitters
- Dome-to-base O-ring seal retained into dome to prevent loss or damage, but is still replaceable if necessary

Apex® X-2 Sealed Splice Closures



Apex® X-2S Sealed Splice Closures



Mfr. Model #	Description	BOR Part #
Apex® Sealed Splice Closure		
AX-2-B-L-6-6-6-X	Apex Fiber Optic Closure, X-2 Size, With Basket, With Loaded Trays, 6 Trays, 6 Cable Entry Kits, 6 Grounds, No Inner Basket	3558006
AX-2-B-L-2-2-2-X	Apex Fiber Optic Closure, X-2 Size, With Basket, With Loaded Trays, 2 Trays, 2 Cable Entry Kits, 2 Grounds, No Inner Basket	3670046
AX-2-B-X-0-2-0-X	Apex Fiber Optic Closure, X-2 Size, With Basket, No Preinstalled Tray, 0 Trays, 2 Cable Entry Kits, 0 Grounds, No Inner Basket	3670047
AX-2S-B-L-6-6-6-X	Apex Fiber Optic Closure, X-2 Size, With Basket, With Loaded Trays, 6 Trays, 6 Cable Entry Kits, 6 Grounds, No Inner Basket	3541146
AX-2S-B-L-1-2-2-X	Apex Fiber Optic Closure, X-2 Size, With Basket, With Loaded Trays, 1 Tray, 2 Cable Entry Kits, 2 Grounds, No Inner Basket	3570846
AX-2S-B-X-0-2-0-X	Apex Fiber Optic Closure, X-2 Size, With Basket, No Preinstalled Tray, 0 Trays, 2 Cable Entry Kits, 0 Grounds, No Inner Basket	3560937
Apex® Trays and Splice Modules		
AX-TRAY-2-2	X-2 Tray Loaded with Two Splice Modules	3553565
AX-TRAY-2-4	X-2 Tray Fully Loaded with Four Splice Modules (576 fibersper tray only recommended for rollable ribbon, e.g. AFL SWR)	3558007
AX-TRAY-2-E	X-2 Tray Empty	3670083
Apex® Splitter Trays		
AX-TRAY-2-12-1	X-2 Tray with Four Splice Modules, (1) 1x2 PLC Splitter	3670072
AX-TRAY-2-14-1	X-2 Tray with Four Splice Modules, (1) 1x4 PLC Splitter	3670076
AX-TRAY-2-18-1	X-2 Tray with Four Splice Modules, (1) 1x8 PLC Splitter	3670079
AX-TRAY-2-116-1	X-2 Tray with Four Splice Modules, (1) 1x16 PLC Splitter	3670070
AX-TRAY-2-132-1	X-2 Tray with Four Splice Modules, (1) 1x32 PLC Splitter	3670073
AX-TRAY-2-12-2	X-2 Tray with (1) 1x2 PLC Splitter and Separate Splicing Tray with Four Splice Modules	3670249
AX-TRAY-2-14-2	X-2 Tray with (1) 1x4 PLC Splitter and Separate Splicing Tray with Four Splice Modules	3670077
AX-TRAY-2-18-2	X-2 Tray with (1) 1x8 PLC Splitter and Separate Splicing Tray with Four Splice Modules	3670080
AX-TRAY-2-116-2	X-2 Tray with (1) 1x16 PLC Splitter and Separate Splicing Tray with Four Splice Modules	3570847
AX-TRAY-2-132-2	X-2 Tray with (1) 1x32 PLC Splitter and Separate Splicing Tray with Four Splice Modules	3670074
AX-TRAY-2-12-3	X-2 Tray with (1) 1x2 PLC Splitter and 2 Separate Splicing Trays with Four Splice Modules each	3670250
AX-TRAY-2-14-3	X-2 Tray with (1) 1x4 PLC Splitter and 2 Separate Splicing Trays with Four Splice Modules each	3670078
AX-TRAY-2-18-3	X-2 Tray with (1) 1x8 PLC Splitter and 2 Separate Splicing Trays with Four Splice Modules each	3670082
AX-TRAY-2-116-3	X-2 Tray with (1) 1x16 PLC Splitter and 2 Separate Splicing Trays with Four Splice Modules each	3670071
AX-TRAY-2-132-3	X-2 Tray with (1) 1x32 PLC Splitter and 2 Separate Splicing Trays with Four Splice Modules each	3670075

Installation Kits and Accessories

The AFL Apex closure line has a variety of installation accessories kits to fit many applications.



Mfr. Model #	Description	BOR Part #
Apex® Accessories		
AX-KIT-AERIAL-1	Aerial strand mount hanger kit	3560939
AX-BR30	Pole/wall mount kit	3553566
AX-KIT-AERIAL-ADJ	Adjustable Aerial Strand Mount Hanger kit	3652186
AX-KIT-AERIAL-ADSS	ADSS Aerial hanger brackets	3652187
AX-KIT-DROP-4	Multi-Drop Cable Entry Kit (fits up to 4 cables 0.20" to 0.39" in diameter or flat drop cable)	3541145
FC104649	X-2 and X-2S Installation Stand	3558010
AX-KIT-U-STAND	Apex Universal Installation Stand	3652200
AX-KIT-GROUND-10	Apex Cable Bonding Kit (Bonds armored cable sheath to ground) – Pack of 10	3577299
AX-KIT-GNDLD-5	Apex Internal Multiple Ground Bonding Kit	3652198
AX-KIT-TUBE-014-XX*	1/4" Colored Mesh Transition Tubing, 250' Spool (*Replace "XX" with color per TIA-598 color code - BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, RS or AQ)	call
FC001657	Silicone Spiral Wrap, 5.5 Foot Length	3505762
AX-KIT-AFRSRBN	Apex Advanced Fiber Retention System (AFRS) Kit 1 – Used for Ribbon Cable (Flat Matrix, SWR, Tubed, Central Core). Kit includes: Mesh BasketAdapter (2 ea.), Mesh Housing (2 ea.), Mesh Insert (24 ea.), V-Clips (12 ea.), and Clean Cut Gray Mesh (13 ft.).	3652188
AX-KIT-AFRSLT	Apex AFRS Kit 2 – Used for Loose Tube Cable. Kit includes: V-Clip (24 ea.) and Retention Pads (6 sheets of 8 pads)	3652189
AX-KIT-AFRSVC-120	Apex AFRS Kit 3 – V-Clip bulk kit. Includes: V-Clips (120 ea.) and Mesh Inserts (120 ea.)	3652190
AX-KIT-AFRSMESH-100FT	Apex AFRS Kit 4 – Mesh bulk kit. Includes: Clean Cut Gray Mesh (100 ft.)	3652191
AX-KIT-AFRSAH-10	Apex AFRS Kit 5 – Mesh Housing bulk kit. Includes: Mesh Basket Adapter (10 ea.) and Mesh Housing (10 ea.)	3652192
AX-KIT-AFRSA-10	Apex AFRS Kit 6 – Mesh Basket Adapter bulk kit. Includes: Mesh Basket Adapter (10 ea.)	3652193
AX-2S-B-L-4-4-X-1R1000F	Apex Restoration Kit, 1000' of 144F Non-Armored Wrapping Tube Cable (Apex X-2S is in Restoration Kit)	3652185
AX-ADPTR-ABTRAY-6	Apex A-B Tray Adapter Kit, 1 Kit of 6 pieces	3670048
AX-ADPTR-ABTRAY-60	Apex A-B Tray Adapter Kit, 10 Kits of 6 pieces	3670049
AX-TRAY-ASC	Apex Bulkhead Kit with Plate SC/APC Adapters, 1 kit	3652202
AX-TRAY-USC	Apex Bulkhead Kit with Plate with SC/UPC Adapters, 1 kit	3670084
AX-TRAY-ASC-6	Apex Bulkhead Kit with Plate SC/APC Adapters, 6 pc kit	3652203
AX-TRAY-USC-6	Apex Bulkhead Kit with Plate SC/UPC Adapters, 6 pc kit	3670085
AX-KIT-BTAB-25	Apex Replacement Slack Storage Basket Tabs – Pack of 25	3670051
Apex® Replacement Kits		
AX-KIT-CBLSTRN	X-2 and X-2S Single Cable Strain Relief/Cable Attachment Unit (CAU) Kit	3670053
AX-KIT-ORING-2	X-2 and X-2S Dome to Base O-Ring Replacement Kit	3670057
AX-KIT-GREASE-10	Apex O-Ring Grease, Pack of 10	3577298
AX-KIT-CLAMP-2	X-2 and X-2S Dome to Base Locking Ring Clamp Replacement Kit	3670054
AX-KIT-WEDGE-2	X-2 and X-2S Wedge Replacement Kit	3652201
AX-KIT-GEL-2	X-2 and X-2S Inner Base Gel Replacement Kit	3670056
AX-KIT-BASKET-2	X-2 Basket and Yoke Assembly Kit. Can be used in combination with the basket cover.	3670050
AX-KIT-SBASKET-2	X-2 Inner Basket Kit	3670058
AX-KIT-DOME-2	X-2 Dome Replacement Kit	3670055
HW000406	WTC-SWR Bundle Splice Tray Retention Kit - Includes 25 foam grommets for retaining SWR bundles to splice trays	3506648
FC001759	Velcro, 75 Foot Length Roll – For securing SWR bundles in the slack basket	3652218

Fiber Optic Solutions

Fiber Optic Products

Splice Cases and Terminals

FOSC 450 Fiber Optic Splice Closures

FOSC 450 fiber optic splice closures are a family of single-ended closures designed for use most anywhere there are fiber splicing and storage needs.

- Re-usable compressed gel cable sealing components that accommodate a wide range of cable sizes
- Capability to accommodate a variety of cable styles including loose tube or central core tube cables with single or ribbon fibers
- Hinging splicing trays that provide controlled access to splices and slack storage
- Splice and storage compartments accessible via a removable dome-clamp system
- Thermoplastic outer materials that withstand temperature and contaminate extremes
- Slack storage baskets of various sizes that provide different slack storage scenarios
- Many shared components between closure sizes
- A range of accessories for a variety of outside plant needs
- With valve for flash testing



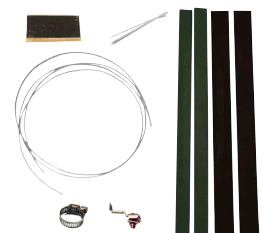
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Mfr. Model #	Description	Ports	Terminations	Tray Capacity/Installed	Slack Basket	Ground Feed Lugs	BOR Part #
058514-000	FOSC450-B6-6-NT-O-B3V	B6	6	NT	B	3	2802743
27646N-000	FOSC450-B6-4-NT-O-T0V	B6	4	NT	T	0	3408063
443162-000	FOSC450-A4-4-24-1-T1V	A4	4	24	T	1	2805644
467054-000	FOSC450-B6-6-24-1-B3V	B6	6	24	B	3	Call
931866-000	FOSC450-D6-6-NT-O-D6V	D6	6	NT	D	6	Call
A08617-000	FOSC450-A4-4-NT-O-A1V	A4	4	NT	A	1	Call
A08755-000	FOSC450-D6-6-72-1-D6V	D6	6	72	D	6	3408109
C30941-000	FOSC450-A4-4-NT-O-A0V	A4	4	NT	A	0	2805633
C32954-000	FOSC450-D6-6-NT-O-D3V	D6	6	NT	D	3	2730531
C62943-000	FOSC450-D6-6-72-1-D3V	D6	6	72	D	3	Call
D06322-000	FOSC450-A4-4-12-1-A1V	A4	4	12	A	1	Call
RH0132-000	FOSC450-B6-6-NT-O-T0V	B6	6	NT	T	0	Call

FOSC 450 Fiber Optic Splice Accessories

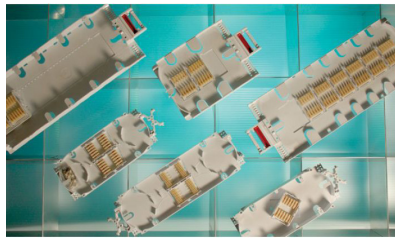
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Mfr. Model #	Description	Cable Capacity	Compatibility	BOR Part #
187312-000	AK-MULDRP-45ASEAL-FLAT4, Gel Drop Seal	4	450 A	Call
275897-000	FOSC-ACC-SM12-MODULES, Snap-in Module, 12 splice	—	—	Call
41606V-000	FAK-MULDRP-45-4W-DRP, Gel Tape Wrap	2 or 4	450 ALL	Call
449105-000	FOSC-ACC-MULT-EXT-GRND-3, Grounding Hardware Kit	—	450 ALL	Call
663259-000	FOSC-ACC-AERIAL-CLAMPS, Aerial Clamp Hardware Kit	—	450 ALL	Call
9C4235-000	FOSC-ACC-C/D-TO-A/B-HNG, Hinged Mounting Bracket Adapter	—	C/D to A/B tray	Call
A13909-000	FOSC-ACC-450-AERIAL-CLMP, Aerial Clamp Kit	—	—	Call
A33560-000	FOSC-ACC-450-FIBGRD-KIT, Fiber Grounding Kit	—	450 ALL	Call
A38215-000	FAK-MULDRP-45-3P-DRP, Gel Plug	3	450 ALL	Call
B48230-000	FAK-MULDRP-45-BASIC-4W, Gel Wrap	4	450 ALL	Call
C82508-000	FOSC-ACC-WALL/POLE-MOUNT, Pole/Wall Closure Mounting	—	—	Call
CZ3388-000	FAK-MULDRP-45-SEAL-FLAT4, Gel Drop Seal	4	450 B, BS, C, D	Call
D80569-000	FOSC-450D-SPLTBASE-01, Split Base for Splice Closures	—	450 C and D	Call
E21473-000	FAK-MULDRP-45-4W/CBL-ATT, Gel Tape Wrap	2 or 4	600 ALL	Call
F29601-000	FOSC-ACC-PED-BRKT-UNIV, Pedestal Mounting Bracket	—	400, 450	Call
XJ261N-000	FAK-MULDRP-45-4P-DRP, Gel Plug	4	450 ALL	Call



FOSC 450 Fiber Optic Splice Trays

- For use with FOSC-450 Fiber Enclosures

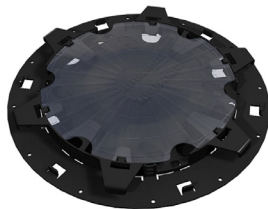


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Mfr. Model #	Description	Tray Type	No of Splices	BOR Part #
061064-000	FOSC-ACC-D-TRAY-RIBN-24	D	24	2104451
398955-000	FOSC-ACC-C-TRAY-RIBN-18	C	18	2716366
426579-000	FOSC-ACC-D-TRAY-36-KIT	D	36	1433268
429567-000	FOSC-ACC-A-TRAY-24-KIT	A	24	Call
497817-000	FOSC-ACC-A-TRAY-12-KIT	A	12	Call
579575-000	FOSC-ACC-D-TRAY-48-KIT	D	48	2599918
5Z963X-000	FOSC-ACC-A/B-TRAY-P6S2PA	A/B	—	3408283
709972-000	FOSC-ACC-A/B-TRAY-12-RBN	A/B	12	2306459
863927-000	FOSC-ACC-B-TRAY-24-KIT	B	24	Call
898849-000	FOSC-ACC-B-TRAY-12-KIT	B	12	1433264
915167-000	FOSC-ACC-D-TRAY-72-KIT	D	72	Call
EBO63E-000	FOSC-ACC-A-TRAY-24-SMV60	A	24	2807820
RH0198-000	FOSC-ACC-C-TRAY-12	C	12	2477383
RH0202-000	FOSC-ACC-C-TRAY-24	C	24	Call
Z75279-000	FOSC-ACC-B-TRAY-24-SMV60	B	24	2838546

Fiber Optic Splice Tray

- Round
- Black
- Holds 12 heat shrink splice protectors



COMMScope®

Mfr. Model #	Description	BOR Part #
FST-DRS12-HS	Fiber Splice Tray	2685765

Fiber Wall Box

Wall mount building entrance for terminations and splices.

- Steel
- White
- 6D x 17W x 10"H



COMMScope®

Mfr. Model #	Description	BOR Part #
9700066/00	WBE-FXC-048-WH, Fiber Wall Box	2778956

Optical Distribution Frame Cable Clamp

- Accepts cables with a maximum diameter of 10 mm (0.4") to 30 mm (1.2"), Kit of 3

COMMScope®

Mfr. Model #	Description	BOR Part #
OSP-CLPFEC-LG	OSP-CLPFEC-LG: KIT CBL CLAMP LRG OSP-FEC, Large Cable Clamp Kit	2836002

Gator 12F Fiber Optic Splice Closure

Flat Drop Splice/Repair.

- Designed for splicing two loose tube "flat drop" style cables of 1 to 12 fibers in above grade, below grade, and direct buried applications
- Uses gel sealing technology to create a sealed closure system that will fit into confined areas such as small "flowerpot" style handholes
- Incorporates unique cable hold down and strength member termination features and is capable of holding either fusion or mechanical splices
- Tone wires can also be terminated outside of the closure using the included hardware
- Re-enterable
- Black
- Wall mount



COMMScope®

Mfr. Model #	Description	BOR Part #
MR3919-000	FDSC-GATOR-12F-T, OSP Fiber Closures	Call

FIBRbox Splice Enclosure

FIBRBox splice enclosures offer CommScope's proven fiber splice management and organizing performance in a rugged enclosure designed for today's FTTX applications.

- Mounts in pedestals, on a wall, or on a pole (can be used in most 8, 10 or 12 inch pedestals)
- Overall dimensions (not including bus bar and mounting tabs): Standard (10", 12" pedestals) 18.3" x 8.6" x 4.2" (H x W x D), Narrow (8" pedestals) 18.3" x 6.3" x 4.2"
- Accommodates up to 4 CommScope FOSC splice trays or OC splitters for distributed PON solutions on standard design, and 5 FOSC splice trays on narrow design
- A variety of adapter brackets are sold separately



COMMScope®

Mfr. Model #	Description	BOR Part #
1H5935-000	FIBRBOX-C-12-1-CS, Standard Fiber Box Splice Enclosure, 12 Positions, 1A Tray	Call
1P2132-000	FIBRBOX-B-12-1-AS, Narrow Splice Fiber Box, 12 Positions, 1A Tray	2804154
D68198-000	FIBRBOX-PEDMTGKT-UNIVBP5, Universal Mounting Bracket	2790073
T75965-000	FIBRBOX-PEDMTGKT-UNIVPF, Wall-Mount Fiber Splice Enclosure	3408309

Fiber Optic Solutions

Fiber Optic Products

Splice Cases and Terminals

Fiber Optic Splice Closure 2178

- Provides secure protection for a broad range of fiber cables
- Engineered to meet common needs and field conditions, with different sizes to accommodate varying splice counts, ideal for wide varieties of applications



CORNING

Mfr. Model #	Size	BOR Part #
80611486525	2178-LS Splice Closure	167759
80611486608	2178-S Splice Closure	167440
2178XSB1T6PGA	2178-XSB Splice Closure-A	1995657
80611486749	2178-XSB Splice Closure-B	1995656

Universal Aerial Hanger Bracket Kit

- Hardware for aerial installation of the 2178-LS family splice closures (S, SL, LS, LL)
- Kit also accommodates the 2178 splice closure with one or two Cable Addition Kits 2181
- Contents: four nylon stop nuts, two corner inserts with studs, two universal hanger bracket assemblies



CORNING

Mfr. Model #	Description	BOR Part #
80610761373	2183-UHB Universal Aerial Hanger Bracket Kit for 2178	167931

Fiber Transition Tubing, 1 ft

- Protects 12 single or four 12-fiber ribbons between trays; cut in one-foot lengths



CORNING

Mfr. Model #	Description	Package	BOR Part #
80610859276	2520 Fiber Transition Tubing, 1 ft	50 Each	167742

Fiber Splice Organizer Tray 2532

- Tray is stackable and accommodates 24 single and 72 mass fusion splices
- 3.0 x 60 mm single fusion heat-shrink sleeve required (Fiber Optic Splice Sleeve 2170 or equivalent)

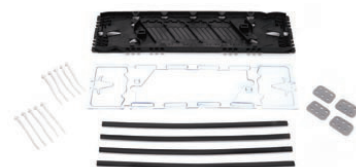


CORNING

Mfr. Model #	Description	Package	BOR Part #
80611304801	2532 Fiber Splice Organizer Tray	2 Each	1995658

Fiber Splice Organizer Trays

- 2522 tray stores and protects single and mass, mechanical, and fusion splices
- The 2523 tray stores and protects discrete and mass, mechanical, and fusion splices
- 2521 family splice inserts are easily added to secure splices into the trays. Fibers are routed into the trays using Transition Tubing 2520 that zips over the fibers
- 2522 tray holds two 2521 family splice inserts (Splice inserts must be ordered separately)
- 2523 tray holds four 2521 family splice inserts (Splice inserts must be ordered separately)



CORNING

Mfr. Model #	Description	Package	BOR Part #
80610859904	2522 Small Fiber Splice Organizer Tray	2 Each	167942
80610859912	2523 Large Fiber Splice Organizer Tray	2 Each	167444

Ribbon Fusion Splice Insert, 2521-RF, 2 Pack

- Holds five ribbon fusion splices in each insert, used in 2522/2523 trays. Accommodates double ceramic rod 8- to 12-fiber mass fusion sleeves

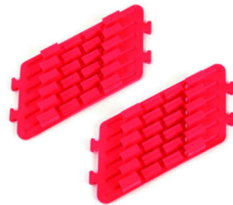


CORNING

Mfr. Model #	Description	Package	BOR Part #
80610859284	2521-RF Ribbon Fusion Splice Insert, 2 Pack	12 Packages	2086371

Fusion Splice Insert, 2521-F, 2-Pack

- Splice insert that holds twelve single-fusion splices in each insert, used in 2522/2523/2538 trays. 3 mm X 60 mm single-fusion heat-shrink sleeve required (2170 or equivalent)



CORNING

Mfr. Model #	Description	Package	BOR Part #
80610859250	2521-F Fusion Splice Insert, 2-Pack	12 Packages	167799

Fibrlok® Splice Organizer Tray 2524

- Holds 24 Fibrlok Splices and eight buffer tubes.
- Fibrlok Splice Organizer Tray 2524 holds 24 Fibrlok splices
- Tray can be adapted for fusion splice storage using the 2524F tray insert. Buffer tubes are secured with channel snaps so that cable ties are not required. The fibers all enter the tray in one corner, eliminating the need for figure 8's in the fiber.
- Stackable trays feature snap-on hinge cover on each tray
- Individual trays may be accessed without disassembly of the trays above or below — and without kinking buffer tubes



CORNING

Mfr. Model #	Description	Package	BOR Part #
80610616882	Fibrlok® Splice Organizer Tray	2 Each	167846

Fusion Splice Organizer Tray — 2524-FT

- Holds 24 single fusion splices
- Buffer tubes are secured with channel snaps so that cable ties are not required. The fibers all enter the tray in one corner eliminating the need for figure 8's in the fiber
- Stackable trays feature snap-on hinge cover on each tray
- Individual trays may be accessed without disassembly of the trays above or below — and without kinking buffer tubes
- 3.0 x 60 mm single fusion heat-shrink sleeve required (2170 sleeve or equivalent)



CORNING

Mfr. Model #	Description	Package	BOR Part #
80610616874	Fusion Splice Organizer Tray	2 Each	167858

Fusion Splice Insert 2524-F

- Adapts the 2524 tray for fusion splices
- 3.0 x 60 mm single fusion heat-shrink sleeve required (Fiber Optic Splice Sleeve 2170 or equivalent)



CORNING

Mfr. Model #	Description	Package	BOR Part #
78807028846	Fusion Splice Insert	24 Each	167728

Fiber Splice Organizer Tray 2527

- Accommodates up to 24 single fusion or 144 mass splices and has entry from all corners
- Maintains the minimum bend radius of fiber. The tray has a clear cover and splice holders included. 3.0 x 60 mm single fusion heat-shrink sleeve required (2170 sleeve or equivalent)



CORNING

Mfr. Model #	Description	Package	BOR Part #
80611175581	Fiber Splice Organizer Tray	2 Each	1704316

Fiber Optic Solutions

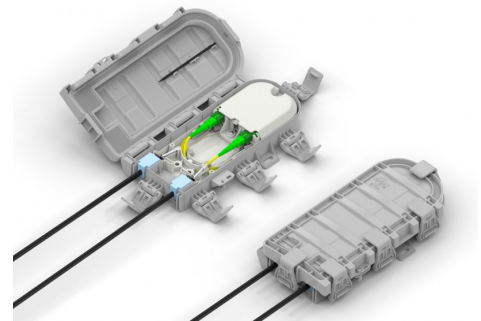
Fiber Optic Products

Splice Cases and Terminals

COYOTE® STP

Small-scale, cost-effective closure which provides an alternative to traditional network interface devices, while offering much greater applications flexibility.

- Dimensions: 10.1" x 5.0" x 1.9" (257 x 126 x 49 mm)
- Max splice capacity: 12 single fusion, 4 mechanical
- Max adapter quantity: 2 simplex SC or 2 duplex LC
- Grommet quantity: 2 (multi-hole grommets available)
- Grommet cable diameter range: 0.100"–0.425" (2.5–10.8 mm) and flat drop cable
- Applications: indoor/outdoor premises, pedestal, wall/pole network interface device (NID)
- Designed and tested in accordance to Telcordia® GR-771-CORE Above Grade, IP-67 Rated Requirements
- Constructed out of rugged UV-stabilized, flame-retardant material (UL94-5VA Rated)
- Robust latch system and integrated over-molded cover creates a secure seal and provides quick re-entry into the closure
- Removable splice platform allows splicing and connections to be made outside of the closure



Mfr. Model #	Description	Cable Entries	BOR Part #
STP-BD-3-1-1-N	STP Cross Connect (1 SC/APC)	x1 (.100"-.154"), x1 (.250"-.350")	3539319
STP-BD-4-2-1-N	STP Cross Connect (1 SC/UPC) with Bonding	x1 (.100"-.154"), x1 (.250"-.350")	3539320
STP-BG-1-N-0-N	STP Splice Only	x1 (.100"-.154"), x1 (flat drop)	3539318
STP-CD-5-1-1-N	STP Direct Cross Connect (1 SC/APC, Tray Not Included)	x1 (.154"-.250"), x1 (.250"-.350")	3539317
STP-EE-2-N-0-N	STP Splice Only with Bonding	x2 (.350"-.389")	3539311
STP-EE-4-1-2-2	STP Cross Connect (2 SC/APC) with 3mm Pigtailed and Bonding	x2 (.350"-.389")	3539312
STP-GG-1-N-0-N	STP Splice Only	x2 (flat drop)	3539313
STP-GG-3-1-1-2	STP Cross Connect (1 SC/APC) with 3mm Pigtailed	x2 (flat drop)	3539314
STP-GG-3-1-1-N	STP Cross Connect (1 SC/APC)	x2 (flat drop)	3539321
STP-GG-3-1-2-2	STP Cross Connect (2 SC/APC) with 3mm Pigtailed	x2 (flat drop)	3539315
STP-HH-5-1-2-N	STP Direct Cross Connect (2 SC/APC, Tray Not Included)	x4 (.100"-.123")	3539316

Accessories

Mfr. Model #	Description	BOR Part #
80061322	COYOTE STP External Shroud Kit	3539309
80061323	COYOTE STP Pedestal Mounting Bracket Kit	3539310

COYOTE® DTC6 and DTC8

- Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirements
- Constructed out of rugged UV-stabilized, flame-retardant material (UL94-5VA Rated)
- Hinged cover with integrated over-mold creates a secure seal and provides quick re-entry and re-use

DTC6

- Offers a durable, compact solution with multiple internal fiber organizers to support your current and future needs
- Dimensions: 10.8" x 7.8" x 3.2" (274 x 198 x 82 mm)
- Max splice capacity: 24 single fusion
- Max adapter quantity: 4 dual SC or 4 quad LC
- Grommet quantity: 6 (multi-hole grommets available)
- Grommet cable diameter range: large grommets = 0.118"–0.60" (3–15 mm), small grommets = 0.093"–0.420" (2.4–10.7 mm) and flat drop
- Applications: direct bury, below grade, pole/wall mount, pedestal, aerial or interior applications

DTC8

- Largest member of the DTC family — provides the ultimate level of application flexibility for fiber drop distribution applications
- Dimensions: 12" x 8.8" x 3.5" (305 x 224 x 89 mm)
- Max splice capacity: 48 single fusion
- Max adapter quantity: 4 duplex SC or 4 quad LC
- Grommet quantity: 8 (multi-hole grommets available)
- Grommet cable diameter range: large grommets = 0.093"–0.550" (2.4–14.0 mm) and flat drop cable, small grommets = 0.093"–0.420" (2.4–10.7 mm) and flat drop cable
- Applications: direct bury, below grade, pole/wall mount, aerial or pedestal



Mfr. Model #	Description	Cable Entries	BOR Part #
DTC6-CCFFFF-1-N-O-N	DTC6 Splice Only	x2 (.250"–.350"), x4 (flat drop)	3539324
DTC6-DDFFFF-1-N-O-N	DTC6 Splice Only	x4 (.156"–.170"), x4 (flat drop)	3539323
DTC6-FFFFFF-1-N-O-N	DTC6 Splice Only	x6 (flat drop)	3539322
DTC6-FFFFFF-2-1-2-N	DTC6 Cross Connect with 4 SC/APC	x6 (flat drop)	3539326
DTC6-FFFFFF-2-1-4-Y	DTC6 Cross Connect with 8 SC/APC and Pigtails	x2 (.350"–.420"), x4 (flat drop)	3539325
DTC8-AAAG-FFFF-1-1-N-O-N	DTC8 Splice Only, Protected Storage, 1 Tray	x1 (.420"–.470"), x4 (flat drop)	3539328
DTC8-AAHH-FFFF-2-4-1-4-Y	DTC8 Splice and Adapters, 4 Trays with 8 SC/APC	x2 (.470"–.550"), x4 (flat drop)	3539331
DTC8-AEEK-BBCD-1-4-N-O-N	DTC8 Splice Only, Protected Storage, 4 Trays	x2 (.320"–.370"), x4 (.093"–.125"), x2 (.170"–.250"), x1 (.250"–.350"), x2 (.156"–.170")	3539327
DTC8-HHJJ-DDDD-3-2-N-O-N	DTC8 Splice Only, Open Storage, 2 Trays	x2 (.470"–.550"), x12 (.156"–.170")	3539329
DTC8-LLLL-AAFF-2-1-1-4-N	DTC8 Splice and Adapters, 1 Tray with 8 SC/APC	x10 (flat drop)	3539330

Accessories

Mfr. Model #	Description	BOR Part #
8004104	DTC8 Pole/Wall Mounting Bracket	3539296
8004105	DTC8 Cable Storage Bracket	3539297
8004108	DTC8 Pedestal Bracket	3539298
8004109	DTC4/6 Pole/Wall Mount Bracket	3539277
8004110	DTC4/6 Cable Storage Bracket Kit	3539295
8004111	DTC4/6/8 Aerial Strand Bracket Kit	3539283
8004112	DTC4/6/8 Aerial ADSS Bracket Kit	3539285
8004172	DTC4/6/8 Mounting Bracket for ADSS Storage Bracket	3539299
80061352	10 Pack Small "A" Plug Grommets DTC4/6/8	3539280
80061361	10 Pack Small "G" 1h 0.350"–0.420" Grommet Kit DTC 4/6/8	3539281
80061369	10 Pack Small "B" 1h 0.170"–0.250" Drop Grommets DTC4/6/8	3539274

Fiber Optic Solutions

Fiber Optic Products

Splice Cases and Terminals

COYOTE® In-Line RUNT

Closure has the versatility to be used in both distribution and fiber-to-the-premise (FTTP) networks for in-line or butt applications.

- Dimensions: 18.7" x 10.0" x 3.7"
- Internal organizer manages buffer tube or ribbon
- Multiple splice tray designs support mass fusion splicing, single fusion splicing or a combination of both
- Splice capacity (Max): 96 - Single Fusion using 80809958, 144 - Single Fusion using 80813152, 80 - Single Fusion using 80808945, 288 Mass Fusion using LGSTR144
- Flexible grommet sealing technology supports a wide range of flat and round cable profiles
- Factory-installed gasket allows re-entry and re-use
- Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirements
- Flame-retardant kits available



Mfr. Model #	Description	Cable Entries	Number of Splice Trays	Cable Ports	Cable Diameters	BOR Part #
8006951	In-Line RUNT Closure	x2 1H (0.40"-0.60"), x1 2H (0.42"-0.60"), x1 4H (0.30"-0.43")	4 - 80809958, 4 - 80813152, 2 - 80808945, 2 - LGSTR144	4	0.93"-1.20" and Flat Drop	2417002

Accessories

Mfr. Model #	Description	BOR Part #
80809958	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 24 CT, Single Fusion	2979198
80813152	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 36 CT, Single Fusion	3531955
80808945	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 4OCT, Single Fusion	2794250
LGSTR144	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 144 CT, Mass Fusion	2417197
8003713	Express Bracket Kit for In-Line RUNT	3539303
8003864	Aerial Mounting Bracket — ADSS Applications	3539286
80807794	Hardware Bag for In-Line RUNT	3539290

Purpose

We help customers power communities, strengthen industries and build tomorrow by owning every relationship, every moment and every outcome.

Together, we move America forward.



COYOTE® 6.5" Dome Closure

Offers two length options of 17" and 22" to support either buffer tube or ribbon fiber applications.

- 4-Port segmented end plate design provides independent access to each cable port without disrupting surrounding cables
- Tray design allows the removal from the stack to enable multiple splicers to work simultaneously
- Multiple tray designs support mass fusion splicing, single fusion splicing or a combination of both
- Flexible grommet sealing technology supports a wide range of flat and round cable profiles
- Cable diameters: 0.093"–1.25" and flat drop
- Ground studs: 4
- Flame-retardant kits available
- Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirements



PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Dimensions	Cable Entries	Splice Capacity (Max)	Number of Splice Trays	BOR Part #
8006944	COYOTE 6.5" x 17" Dome Closure for Buffer Tube Fiber	8.57" x 17.85"	x2 1H (0.40"–0.60"), x2 1H (0.60"–0.85")	144 - Single Fusion using 80809958; 216 - Single Fusion using 80813152; 120 - using 80808945	6 - 80809958, 6 - 80813152, 3 - 80808945	2416999
8006945	COYOTE 6.5" x 17" Dome Closure for Ribbon Fiber	8.57" x 17.85"	x2 1H (0.40"–0.60"), x2 1H (0.60"–0.85")	144 - Single Fusion using 80809958; 216 - Single Fusion using 80813152, 120 Single Fusion using 80808945, 432 Mass Fusion using LGSTR144	6 - 80809958, 6 - 80813152, 3 - 80808945, 3 - LGSTR144	2417000
8006877	COYOTE 6.5" x 22" Dome Closure for Buffer Tube Fiber	8.57" x 22.60"	x2 1H (0.40"–0.60"), x2 1H (0.60"–0.85")	144 - Single Fusion using 80810086; 216 Single Fusion using LGSTS72	4 - 80810086, 3 - LGSTS72	1679831
8006878	COYOTE 6.5" x 22" Dome Closure for Ribbon Fiber	8.57" x 22.60"	x2 1H (0.40"–0.60"), x2 1H (0.60"–0.85")	144 - Single Fusion using 80810086; 216 Single Fusion using LGSTS72, 648 using LGSTR216	4 - 80810086, 3 - LGSTS72, 3 - LGSTR216	2416994

Accessories

Mfr. Model #	Description	BOR Part #
80809958	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 24 CT, Single Fusion	2979198
80813152	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 36 CT, Single Fusion	3531955
80808945	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 40CT, Single Fusion	2794250
LGSTS72	Splice Tray, COYOTE LITE-GRIP Long, Deep Profile, 72 CT, Single Fusion	2597295
LGSTR144	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 144 CT, Mass Fusion	2417197
LGSTR216	Splice Tray, COYOTE LITE-GRIP Long, Deep Profile, 216 CT, Mass Fusion	2417198
8003833	6.5" Dome Aerial Mounting Bracket — ADSS Applications	3539278
8003835	Universal Mounting Bracket — Handhole Applications	3539282
80808651	Strength Member Bracket Kit — Includes (4) Long L-Brackets	3539287
80808878	Large Strength Member Adapter Kit	3539273
8004036	6.5" Dome Aerial Adjustable Offset Mounting Bracket — ADSS Applications	3539289

Fiber Optic Solutions

Fiber Optic Products

Splice Cases and Terminals

COYOTE® 9.5" Dome Closure

Offers two length options of 19" and 28" to support either buffer tube or ribbon fiber applications.

- 7-Port segmented end plate design provides independent access to each cable port without disrupting surrounding cables
- Tray design allows the removal from the stack to enable multiple splicers to work simultaneously
- Multiple tray designs support mass fusion splicing, single fusion splicing or a combination of both
- Flexible grommet sealing technology supports a wide range of flat and round cable profiles
- Cable diameters: 0.093"–1.25" and flat drop
- Ground studs: 7
- Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirements



PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Dimensions	Cable Entries	Splice Capacity (Max)	Number of Splice Trays	BOR Part #
COYD919B-000	COYOTE 9.5" x 19" Dome Closure for Buffer Tube Fiber	13.3" x 20.43"	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	288 - Single Fusion using 80809958, 432 - Single Fusion using 80813152, 240 - Single Fusion using 80808945	12 - 80809958, 12 - 80813152, 6 - 80808945	3550447
COYD919R-000	COYOTE 9.5" x 19" Dome Closure for Ribbon Fiber	13.3" x 20.43"	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	288 - Single Fusion using 80809958, 432 - Single Fusion using 80813152, 240 - Single Fusion using 80808945, 864 Mass Fusion using LGSTR144	12 - 80809958, 12 - 80813152, 6 - 80808945, 6 - LGSTR144	3550448
80061055	COYOTE 9.5" x 28" Dome Closure for Buffer Tube Fiber	13.3" x 29.4"	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	360 - Single Fusion using 80810086, 432 - Single Fusion using LGSTS72	10 - 80810086, 6 - LGSTS72	2416833
80061056	COYOTE 9.5" x 28" Dome Closure for Ribbon Fiber	13.3" x 29.4"	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	396 - Single Fusion using 80810086, 576 - Single Fusion using LGSTS72, 1728 - Mass Fusion using LGSTR216	11 - 80810086, 8 - LGSTS72, 8 - LGSTR216	2416834

Accessories

Mfr. Model #	Description	BOR Part #
80810086	Splice Tray, COYOTE LITE-GRIP Long, Standard Profile 36 CT, Single Fusion	2794245
80809958	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 24 CT, Single Fusion	2979198
80813152	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 36 CT, Single Fusion	3531955
80808945	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 40CT, Single Fusion	2794250
LGSTS72	Splice Tray, COYOTE LITE-GRIP Long, Deep Profile, 72 CT, Single Fusion	2597295
LGSTR144	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 144 CT, Mass Fusion	2417197
LGSTR216	Splice Tray, COYOTE LITE-GRIP Long, Deep Profile, 216 CT, Mass Fusion	2417198
8003869	9.5" Dome Aerial Mounting Bracket — ADSS Applications	3539288
8003940	9.5" Dome Aerial Mounting Bracket — Strand Applications	3539284
8003941	9.5" Dome Aerial Mounting Bracket — End Plate Mounting Applications	3539292
8003942	9.5" Dome Pole/Wall Mounting Bracket	3539291
80808651	Strength Member Bracket Kit — Includes (4) Long L-Brackets	3539287
80808878	Large Strength Member Adapter Kit	3539273

COYOTE® HD (High-Density) Dome Closure

Offers an alternative fiber organizer to support high-density splice applications within the same footprint as PLP's existing 9.5" x 28" COYOTE Dome Closure.

- Dimensions: 13.3" x 29.4"
- Maximum Splice Capacity of 1728 or 3456 depending on cable construction
- 7-Port segmented end plate design provides independent access to each cable port without disrupting surrounding cables
- Two splice tray designs to support mass fusion splicing, single fusion or a combination of both
- Modular tray design permits trays to hinge upward or be removed from the stack to allow multiple splicers to work simultaneously
- Grommet range now accepts fiber optic cable entry of up to 1.38" in diameter
- Cable diameters: 0.093"–1.25" and flat drop
- Ground studs: 7
- Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirement



PLP PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Cable Entries	Splice Capacity (Max)	Number of Splice Trays	Max Cable Diameter	BOR Part #
80061488	COYOTE® HD Dome Closure for Buffer Tube Applications	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	576 - Single Fusion using 80813123, 864 Single Fusion using 80813301	8 - 80813123, 8 - 80813301	1.25"	3539300
80061406	COYOTE® HD Dome Closure for Ribbon Applications w/o Slack Basket	x2 1H (0.85"–1.00"), x2 1H (1.00"–1.25")	864 - Single Fusion using 80813123, 3456 Mass SWR using 80813122, 1728 Mass Fusion using 80813121	12 - 80813123, 12 - 80813122, 6 - 80813121	1.25"	3550449
80061408	COYOTE® HD Dome Closure for Ribbon Applications w/o Slack Basket	x2 1H (1.00"–1.25"), x2 1H (1.25"–1.38")	864 - Single Fusion using 80813123, 3456 Mass SWR using 80813122, 1728 Mass Fusion using 80813121	12 - 80813123, 12 - 80813122, 6 - 80813121	1.38"	3550450
80061407	COYOTE® HD Dome Closure for Ribbon Applications w/ Slack Basket	x2 1H (0.85"–1.00"), x2 1H (1.00"–1.25")	576 Single Fusion using 80813123, 2304 Mass SWR using 80813122, 1152 Mass Fusion using 80813121	8 - 80813123, 8 - 80813122, 4 - 80813121	1.25"	3550451
80061409	COYOTE® HD Dome Closure for Ribbon Applications w/ Slack Basket	x2 1H (1.00" - 1.25"), x2 1H (1.25" - 1.38")	396 - Single Fusion using 80810086, 576 - Single Fusion using LGSTS72, 1728 - Mass Fusion using LGSTR216	11 - 80810086, 8 - LGSTS72, 8 - LGSTR216	1.38"	3550452

Accessories

Mfr. Model #	Description	BOR Part #
80813121	Splice Tray, COYOTE Deep Profile Mass Fusion Flip Tray, 288 CT	3550458
80813122	Splice Tray, COYOTE Thin Profile Mass Fusion Flip Tray, 288 CT	3550459
80813123	Splice Tray, COYOTE Thin Profile Single Fusion Flip Tray, 72 CT	3539301
80813301	Splice Tray, COYOTE Thin Profile Single Fusion Flip Tray, 108 CT	3539302

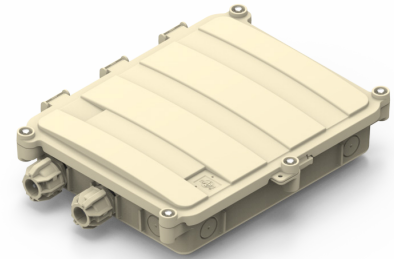
Fiber Optic Solutions

Fiber Optic Products

Splice Cases and Terminals

COYOTE® MPC

- Interior grid hole pattern allows custom organization of various components
- Offers NEMA4 performance
- Constructed with UL94-5VA rated polymer compounds, to provide the highest flame resistant rating
- Flexible grommet sealing technology supports a wide range of flat and round cable profiles
- Integrated silicone foam rubber gasket designed to eliminate water entry
- 8 cable entrance ports around closure exterior



PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Dimensions	Included Cable Entries	Included Splice Capacity	Adapter Quantity and Type	BOR Part #
COYMP-000	Standard Empty MPC	17.5" x 14.4" x 4.0"	—	—	—	3539293
COYMP-001	Standard MPC with 4-Hole Grommet	17.5" x 14.4" x 4.0"	4x (.120"–.275")	—	—	2417166
COYMP-003	Standard MPC with Step Grommets and Cable Organizer	17.5" x 14.4" x 4.0"	4x (.120"–.275"), 8x (.120"–.200")	—	2x OptiTap	2417168
COYMP-004	Standard MPC with Splice Tray, 4-Hole Grommet, and 2-Hole Grommet	17.5" x 14.4" x 4.0"	4x (.120"–.275"), 2x (.275"–.50")	12 Single Fusion	—	2417169
COYMP-005	Standard MPC with 12 SC/UPC Adapters	17.5" x 14.4" x 4.0"	12x (.120"–.275"), 1x (.40"–.60")	—	12 SC/UPC	3539305
COYMP-006	Standard MPC with Splice Tray and 1-Hole Grommet	17.5" x 14.4" x 4.0"	1x (.40"–.60")	16 Single Fusion	—	3539306
COYMP-008	Standard MPC with 2-Hole Grommet Kit	17.5" x 14.4" x 4.0"	2x (.275"–.500")	—	—	3539307
80808916	Empty Bulkhead Kit — Accepts 2 Adapter Modules	—	—	—	—	3539275
8003879	Tray Bracket Kit	—	—	—	—	3539308

COYOTE® Silicone Grommets

- Multi-hole designs available to cover cable diameter ranges from 0.093"–1.25" (2.4–31.8 mm)
- Multi-hole designs allow for increased cable or drop capacity without the need to buy additional cable sealing and restraint kits
- Silicone grommet can be slit per the application procedure to accommodate terminated or expressed cables
- Eliminates the need for scuffing, adhesives, sealing tapes or cure times
- Can be used across the COYOTE Fiber Optic Closure product line including the COYOTE LCC, In-Line RUNT, ONE, 6.5" and 9.5" Domes, Terminals, Terminal Domes, and GLC
- Designed and tested in accordance to Telecordia® GR-771-CORE, Buried, Underground; field proven since 2005
- COYOTE Silicone Grommet Kits include: (1) Grommet, (1) Cable Measure Tape, (1) Silicone Lubricant Pack and Plugs (where applicable)



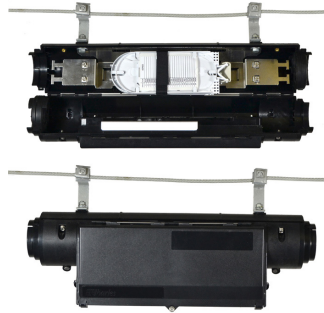
PREFORMED LINE PRODUCTS

Mfr. Model #	Description	BOR Part #
8004065	4-Hole Silicone Grommet Kit, 0.250"–0.312"	3539276
8004094	8-Hole Silicone Grommet Kit, 0.093"–0.125"	3539304
80811034	4 Pack Grommet Kit 1h 0.250"–0.350" for COYOTE® DTC Only	3539294
80811033	4 Pack Grommet Kit 1h 0.170"–0.250" for COYOTE® DTC Only	2918932

Fiber Aerial Solution

Simple cost effective solutions for mid span splice or drops in PON networks.

- Strand mount
- Hinged splice tray
- Robust and sturdy



Mfr. Model #	Description	BOR Part #
CFAS-SPL01	Fiber Aerial Splice Closure Splice Configuration, No Adapter Panel, One 4" x 6" Drop Splice 24 Fiber Splice Tray, Includes Aerial Mounting Brackets	3396783

Fiber Transition Terminal

Flexible solution for NID applications are for use as a fiber backhaul connection at cell sites.

- Compact
- Sturdy
- Configurable to your requirements



Mfr. Model #	Description	BOR Part #
CFTT4-1SCAX	1 Port, SC/APC Adapter Type	3400602

FieldSmart® Fiber Crossover Multi-Purpose (FxMP) Patch and Splice Panels

Provides an interconnect or cross-connect environment for up to 288 SC ports or 576 LC ports of high-density fiber for inside plant environments and outside FDH deployments.

- Panels are fully certified to Telcordia GR-63 and GR-1089
- Fiber cable is certified to GR-20 and GR-409
- Terminations are designed and tested to Telcordia GR-326
- Supports all industry standard singlemode and multimode connectors
- Front cover is easily removable and installation of cassettes is simple with no tools needed
- Front access to pre-terminated assemblies with removable adapter plates for testing, cleaning and maintenance
- The entire 12-fiber Clearview Cassette is removable for hot-swap changes
- New larger designation cards provide greater writing area for standard and high-density panels
- Reversible mounting ears provide added flexibility



Mfr. Model #	Description	BOR Part #
FxMP Panel — In-Cassette Splicing (Patch and Splice), No Connectors, No Fiber, 19"/23" EIA or WECO Rack Mounting, Almond Color		
G-JBA-000-ZOZ-BZZ	2-Cassette Capacity, 24–48 Ports, 3.25" Rods, 19"W x 16.8"D x 1.75"H (1 RU)	3547820
G-EBB-000-ZOZ-AZZ	6-Cassette Capacity, 72–144 Ports, 4.77" Rods, Clearview Blue Cassette(s), Front and Rear Protection, Slack Basket, 19"W x 16.8"D x 3.5"H (2 RU)	3489548
G-KBB-000-ZOZ-AZZ	8-Cassette Capacity, 96–192 Ports, 4.77" Rods, Clearview Blue Cassette(s), Front and Rear Protection, Slack Basket, 19"W x 16.8"D x 4"H	3547821
FieldSmart Small Count Delivery Panel, No Connectors, 19"/23" EIA or WECO Rack Mounting, Almond Color		
SCD-X1RU-RM	2 Slots (xPAK and Clearview Cassette Compatible), 24–48 Ports, 21"W x 13.8"D x 1.75"H (1 RU)	2841975

Panels are also available in other sizes and configurations — contact your Border States representative for details.

Fiber Optic Solutions

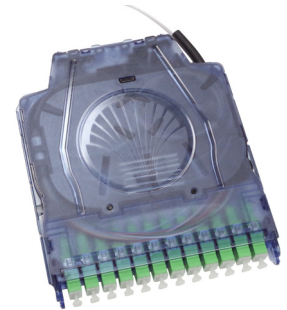
Fiber Optic Products

Splice Cases and Terminals

Clearview® Blue Cassettes

Delivering the most scalable fiber management platform in the industry, Clearfield ensures your investment in capital equipment grows alongside your take rates. The key to this promise: Clearview® Blue, Clearview Black and the Clearview xPAK — the central building blocks of every element of the FieldSmart® product portfolio.

- Scalable building block to align capital expenditures to customer take rates
- Modular design allows ports to be configured to user-defined application requirements
- Patch and splice integrated splice tray removes the need for separate chassis space or a splice enclosure, reducing the required real estate
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Slack stored, bend-radius protected and secured against accidental physical damage from handling
- Tight buffer tube/cable entry/exit paths allow the technician a high degree of flexibility in deployment
- Ability to store 10 feet (3.05m) of exposed buffer tube in the in-cassette buffer tube location
- Terminations are designed and tested to Telcordia GR-326
- UL Certifications



Mfr. Model #	Description	BOR Part #
EPZ-012-A1F-SUB	Loose Tube, Loaded with 12 SC/UPC Adapters, Filister Mounting Screws	3319590
EPZ-012-C1F-SUB	Loose Tube, Loaded with 12 SC/APC Adapters, Filister Mounting Screws	3301679
EYZ-012-C1F-SUB	Loose Tube, Loaded with 12 SC/APC Adapters, Universal Mounting Options	3470824
EYZ-012-C2F-SUB	Ribbon Cable, Loaded with 12 SC/APC Adapters, Universal Mounting Options	3475410
EYZ-024-F1F-SUB	Loose Tube, High-Density, Loaded with 24 LC/UPC Adapters, Universal Mounting Options	3492366

Clearview® xPAK Cassettes

Clearview xPAK cassettes provide small port counts and can be deployed as a stand-alone device, or with FieldSmart® Fiber Deliver Point (FDP) products for a wide range of network environments.

- Terminations are designed and tested to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Supports industry-standard SC, LC, ST, FC and MPO/MTP singlemode and multimode connectors
- Radius-protected storage for up to 1/2 meter of 900 µm jacketed fibers
- Durable polypropylene construction (impact plastic)
- Small design facilitates ease of use in crowded environments
- Front: 4 or 6 SC ports; Rear: 1 SC port or 1 MPO/MTP
- LGX-compatible flange mount
- Supports optional component integration, plug-and-play with MPO configurations



Mfr. Model #	Description	BOR Part #
4PAK-SCA	4-Port SC/APC, xPAK Cassette, 900µm, Singlemode, 1m Pigtail, Durable Polypropylene, 4"W x 5.38"D x 1.14"H, with Standard and LG Faceplates	2492307
6PAK-SCA	6-Port SC/APC, xPAK Cassette, 900µm, Singlemode, 1m Pigtail, Durable Polypropylene, 4"W x 5.38"D x 1.14"H, with Standard and LG Faceplates	2599792

FieldSmart® Fiber Distribution Hub (FDH) PON Cabinets

The complete solution for managing 12- to 864-port distribution fibers for an outside plant FTTx PON application.



- Terminations are designed, tested and certified to Telcordia GR-326
- Fiber cable certified to Telcordia GR-20 and GR-409; designed, tested and certified to Telcordia GR-3125
- Constructed of 0.090" or 0.125" aluminum with almond powder coating
- Optional 4" and 12" risers can be stacked to raise cabinet if required
- 12-fiber Clearview® Cassette protects fiber from environmental and human factors
- Rugged cable clamps protect the OSP cable breakouts from twisting and pistoning
- Pyramid roof and venting provide additional protection in all environments



Mfr. Model #	Description	BOR Part #
FieldSmart FDH PON Cabinet— Patch Only — Front and Rear Access, for Vault, Pole or Pad Mounting		
R-CRB1-144-C1E-O100-M 100F	144-Port Capacity with 12" Riser, Loaded with 144 SC/APC Adapters, 1 x 144 Fiber OSP Non-rated Loose Tube, 100 ft., 12 OSP Feeder Fiber Pigtail in Clearview Blue Cassettes, 0.125" Al, 17.81"W x 18.53"D x 21.62"H	3670334
R-DA2-288-C2E-O200-B 100F	288-Port Capacity with 4" Riser, Loaded with 288 SC/APC Adapters, 2 x 144 Fiber OSP Non-rated Ribbon, 100 ft., 24 OSP Feeder Fiber Pigtail in Clearview Blue Cassettes, 0.90" Al, 18.5"W x 16.98"D x 35.11"H	3547823

Other FDH PON Cabinet sizes and configurations available — contact your Border States representative for details.

Vision



Local service you trust

Everywhere you need us

Relationships are strengthened

By our size and scale

Unmatched local service you trust, everywhere you need us – where relationships are strengthened by our size and scale, never compromised by it.



Fiber Optic Solutions

Fiber Optic Products

Splice Cases and Terminals

FieldSmart® Fiber Delivery Point (FDP) SCD Wall Boxes

Ideal for any small count fiber scenario, the FieldSmart Small Count Delivery (SCD) Wall Box provides up to 24 fibers in a discrete footprint without sacrificing fiber management.

- Designed to land small port count fiber terminations and optical components as conveniently and inexpensively as possible
- Perfectly suited for in-building needs, such as business class demarcations, MDU distribution points and IDF locations in enterprise networks as well as pole-mount applications in outside plant environments
- Supports industry-standard SC and LC singlemode connectors
- Dual snap locks to ensure lid seals to base
- Mounting hole pattern for multiple applications
- Radius-protected storage for up to 15 feet (4.57m) of buffer tube
- NEMA 4 rated
- Gray flame-retardant PVC construction for durability
- Easy to install with both internal and external mounting holes
- Two bottom entry/exit points



Mfr. Model #	Description	BOR Part #
FieldSmart® Small Wall Box for One xPAK Cassette with 3/4" Sealcon Fitting — 8.62"W x 3.91"D x 12.17"H		
FDP-XWB1	Empty (purchase xPAK Cassette separately)	2492308
FDP-XWB1-xPAK-xx	Loaded with One xPAK Cassette (specify number of ports and connector type)	3084354
FieldSmart® Large Wall Box for Two Clearfield Cassettes with 3/4" Sealcon Fitting — 11.37"W x 4.14"D x 15.24"H		
FDP-XWB2-12-SCA-B	Loaded with One Clearview Blue Cassette Splice Module with 12 SC/APC Connectors	3455284
FDP-XWB2-12-SC-B	Loaded with One Clearview Blue Cassette Splice Module with 12 SC/UPC Connectors	3459625
FDP-XWB2-24-SCA-B	Loaded with Two Clearview Blue Cassette Splice Modules with 12 SC/APC Connectors Each	3459333
FDP-XWB2-24-SC-B	Loaded with Two Clearview Blue Cassette Splice Modules with 12 SC/UPC Connectors Each	3547824

YOURx™ Flex Box

A flexible and scalable solution all within a single wall box.

- Ideal for cabling MDUs in both existing (brownfield) and new (greenfield) construction
- Addresses the challenge of how to manage incoming duct while supporting varying number of subscribers in different configurations with slack management while also reducing installation time
- Accepts Clearview Blue Cassette, Clearview xPAK, FieldShield Drop Wheel or SmartRoute Plate
- 1" inside mounting hole pattern for multiple applications
- Dual snap ensures gasket-sealed lid secures to box
- NEMA 4 rated, gray PVC construction
- Grounding lug included
- Top and bottom entry/exit points
- Slide-in aggregator plates eliminate the need for additional duct organizer



Mfr. Model #	Description	BOR Part #
YOURx FieldSmart Flex Box with Capacity for Up to Four Cassettes — 12"W x 5.38"D x 15.66"H		
FDP-XWBF-BPLATE	Empty with Blank Plate (purchase cassettes separately)	3547825
FDP-XWBF-UPATE	Empty with Universal Plate	3670335
FDP-XWBF-CPLATE	Empty with Combo Plate. Combo plate supports 10mm and 8.5mm microduct. Microduct flex ports sold separately.	3670335
WQB-012-C1F-CZZ	Loaded with One Clearview Blue Cassette Splice Module with SC/APC Connectors and Combo Plate with 12 10mm Microduct Flex Ports	3547826
WQB-012-A1F-CZZ	Loaded with One Clearview Blue Cassette Splice Module with SC/UPC Connectors and Combo Plate with 12 10mm Microduct Flex Ports	3547827
WQB-024-C1F-CZZ	Loaded with Two Clearview Blue Cassette Splice Modules with SC/APC Connectors and Combo Plate with 24 10mm Microduct Flex Ports	3547828
WQB-024-A1F-CZZ	Loaded with Two Clearview Blue Cassette Splice Modules with SC/UPC Connectors and Combo Plate with 24 10mm Microduct Flex Ports	3547829



Universal Plate

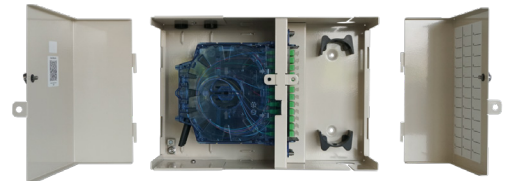


Combo Plate
Includes 3/4" Sealcon
Supports 10mm and
8.5mm microduct. Flex
ports sold separately.

FieldSmart® Fiber Delivery Point (FDP) Indoor Wall Box

Optimized for MDU applications.

- Configurable with up to 144 distribution ports and 24 feeder ports using Clearview® Cassettes
- Able to house up to three 1 x 32 splitters
- Supports PON applications, fiber demarcations, entrance facilities and CCTV security systems
- Terminations are designed and tested to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Designed to comply to Telcordia GR-20 and GR-409
- Supports all industry-standard singlemode and multimode connectors
- 100% performance tested for insertion loss, return loss and final mechanical inspection
- Radius-protected storage for up to 5m of jacketed fiber or patch cord slack is provided (patch side)
- Rugged steel construction with security-enabled doors provides protection from tampering or inadvertent damage with industry-standard can wrench fasteners
- Removable doors and non-angled connectors enable fast, easy fiber jumper routing, reducing the risk of fiber damage when cleaning or patching fibers
- Upper and lower entry/exit points for feeder/customer premise cables



Mfr. Model #	Description	BOR Part #
FieldSmart® Empty Indoor Metal Wall Boxes — Almond Color		
WFB-000-Z0Z-ZZZ	Empty with Blank Plate (purchase cassettes separately)	3547830

Available in other configurations — contact your Border States rep for more information.

YOURx-Terminal

Improves the customer application and craft experience by providing an access terminal capable of 16 drops, two feeder ports for mid-span and daisy-chaining scenarios, along with a fully protected and restorable pathway from the YOURx-Terminal to the YOURx-TAP using the Clearfield® design methodology of a modular and flexible approach that scales across the application environment.

- Designed to comply to Telcordia GR-771
- Supports FieldShield Pushable/Pullable SC Connectors for drop applications
- Supports pre-terminated FieldShield FLATdrop, FieldShield FLEXdrop, FieldShield StrongFiber or FieldShield Pushable Fiber assemblies for individual drop applications
- 100% performance tested for insertion loss, return loss and final mechanical inspection
- Designed using black UV-resistant thermoplastic material
- Environmentally sealed terminal providing maximum reliability and durability in the harshest OSP environments
- FieldShield FlexConnector provides bend-limiting, strain-relief protection and water-tight seal for FieldShield Cables
- Compact sealed design allows placement above or below grade



Mfr. Model #	Description	BOR Part #
YOURx-Terminal with 4 SC/APC Drop Ports — 7.14"W x 6.74"D x 7.31"H		
FSTX-04C-51Z-ZAZ	12 fiber MPO Male Feeder	3547832
FSTX-04C-Z1M-ZZZ 0025F	Patch Only, 12 fiber, OSP Armored Feeder	3547837
FSTX-04C-Z1T-ZZZ 0025F	Patch Only, 12 fiber, Flat Drop non-toned Feeder	3547839
FSTX-04C-Z1W-ZZZ 0025F	Patch Only, 12 fiber, FieldShield Feeder	3547841
FSTX-M5-04C-085	12 fiber MPO Male Feeder drop (4 Fibers) SCAPC and Express (8 Fibers) out MPO Male	3670336

Available in other configurations — contact your Border States representative for information.

Fiber Optic Solutions

Fiber Optic Products

Splice Cases and Terminals

YOURx™ YOURx-Aerial Terminal

When the network deployment plan calls out for an aerial application, Clearfield's YOURx-Aerial Terminal application allows for the flexibility to terminate a feeder fiber directly into revenue-generating drops and has the capability to accommodate a fiber cable mid-span, allowing cables to be fully utilized while feeding multiple terminals and access points.

- Compliant to Telcordia GR-771
- Supports FieldShield Pushable Duct and pushable/pullable fiber solution with SC connectors for drop applications
- Supports pre-terminated FieldShield FLATdrop cable assemblies for individual drop applications
- 100% performance tested for insertion loss, return loss and final mechanical inspection
- Black UV-resistant thermoplastic designed to resist corrosion
- Free-breathing terminal provides durability and protection in OSP environments
- Four side entrance holes accept multiple cable types — up to 144 fiber count — not to exceed 3/4" (19.05mm) O.D.
- Two secure compartments, separate splices from the drop ports, providing network security



Mfr. Model #	Description	BOR Part #
YOURx-Aerial Terminal with SC/APC Connectors for Drop Ports and 10mm FlexPorts for Distribution — 14.80"W x 8.15"D x 11.61"H		
AFT-06C-Z1F-Z1Z	6 Drop Ports and 6 Distribution Ports	3547861
AFT-12C-Z1F-Z1Z	12 Drop Ports and 12 Distribution Ports	3547862
AFT-24C-Z1F-Z1Z	24 Drop Ports and 24 Distribution Ports	3547863

CraftSmart Fiber Test Access Point (TAP) Box

Gives the service provider an accessible exterior access point to test fiber integrity before it enters the customer premise, offering the ability to identify potential issues in conductivity from outside the customer premise location.

- Fiber terminations are Telcordia and RUS compliant
- Supports industry standard SC/APC, SC/UPC, LC/APC or LC/UPC connectors
- Overlapping cover seals unit from environmental elements
- Two rubber grommets provide sealing of feeder and drop cables
- Enclosure made of high-impact UV resistant thermal plastic material - to resist and withstand corrosive environments
- Designed to meet NEMA 3 criteria
- Integrated fiber management protects fiber from micro and macro damage
- Special coupler available for use with FieldShield® Microduct
- Wall and pole mount applications available



Mfr. Model #	Description	BOR Part #
TAP-BBD-1Z-ZZZ	Tap Box Assembly, Patch and Splice with One Duplex SC/APC Adapter Port, 8.57"W x 1.67"D x 7.3"H	3396361

Also available with industry-standard SC/UPC, LC/APC or LC/UPC connectors — contact your Border States representative for details.

Home Deployment Kit (HDK)

Extends Clearfield's field-proven fiber management expertise and leading-edge fiber connectivity performance all the way into the home.

- Starting with the Test Access Point (TAP) solution of your choice, the Home Deployment Kit packages the required patch cords, fiber jack (Clearfield's CraftSmart Fiber Outlet) and necessary adapter and splice sleeve installation accessories in a single box.
- Minimizes truck rolls are minimized and speeds customer turn-up
- Accepts 10mm microduct and standard flat drop using supplied grommet tap
- 3mm grommets included for FLEXdrop cable
- Integrated splice sleeve retainer
- Supports industry-standard SC adapters
- Rear exit for direct entrance to premise
- Access available without customer needing to be there to identify potential problems



Mfr. Model #	Includes	BOR Part #
FieldSmart SCD-TAP Home Deployment Kit — NEMA 4 Plastic Box, Large Format with FLEXdrop Deployment Reel, 8.62"W x 3.91"D x 12.17"H		
HDK-DBCC-CDD6-CCFW1	SC/APC Adapter, 100 ft. Black FLEXdrop Entrance Cable (Standard Simplex SC/APC to Pushable SC/APC), 10 ft. White FLEXdrop Equipment Cable (Standard Simplex SC/APC to Standard SC/APC)	3547933
FieldSmart Mini TAP NEMA 4 Plastic Box with FLEXdrop Deploy Reel, 6"W x 3.91"D x 9"H		
HDK-GACC-CDD4-CCFW1	Mini-Tap; Flexdrop (Black) Deploy Reel Loaded With SC/APC Adapter And Std Simplex SC/APC To Pushable SC/APC 50 Feet; FLEXdrop Equipment Cable (White): Std Simplex SC/APC To Std SC/APC 10 Feet, 1x 50ft Storage Spool; L-Bracket (No Adapter); And Fiber Outlet Box	3670337
CraftSmart TAP-Splice Home Deployment Kit - NEMA 4 Plastic box, 8.62"W x 3.91"D x 12.17"H		
HDK-DACC-CDD4-CCFW1	Plastic Nema 4 Fieldsmart SCD Tap Box; FLEXdrop (Black) Deploy Reel Loaded With SC/APC Adapter And Std Simplex SC/APC To Pushable SC/APC 50 Feet; Flexdrop Equipment Cable (White): Std Simplex SC/APC To Std SC/APC 10 Feet, 1x 50ft Storage Spool; L-Bracket (No Adapter); 2x Multi-Purpose Strain Reliefs And Fiber Outlet Box	3670338
CraftSmart TAP-Splice Home Deployment Kit - NEMA 4 Plastic Box Splice-Style, 4.0"W x 1.75"D x 6.5"H		
HDK-EPCC-CDF3-CCFW2	Tap-Splice; FLEXdrop Entrance Cable (Black): Std Simplex SC/APC To Pushable SC/APC 25 Feet; FLEXdrop Equipment Cable (White): Std Simplex SC/APC To Std SC/APC 15 Feet, 1x Splice Sleeve And Fiber Outlet Box	3671685

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Why We Give Back

Our commitment to community is centered around giving back and taking care of the places where we live and work. When we do, the rest seems to have a way of taking care of itself.

borderstates.com



Fiber Optic Solutions

Fiber Optic Products

Test and Inspection

FOCIS Flex Fiber Optic Connector Inspection System

A top choice of technicians installing and troubleshooting optical networks.

- 1-button to auto-focus, center, capture, analyze and save
- IEC, IPC and user-defined pass/fail analysis
- Untethered, compact, hand-held inspection
- Use independently or pair with OTDR



Mfr. Model #	Description	BOR Part #
FOCIS-FLX-NW-P4XA	FOCIS Flex No Wireless, APC Ferrule and Bulkhead Adapter Tips (1 ea.), One-Click Cleaner	3506357
FOCIS-FLX-NW-P4XN	FOCIS Flex No Wireless, No Adapter Tips or One-Click Cleaner (order separately)	3506358
FOCIS-FLX-NW-P4XU	FOCIS Flex No Wireless, UPC Ferrule and Bulkhead Adapter Tips (1 ea.), One-Click Cleaner	3506359
FOCIS-FLX-P4XA	FOCIS Flex Kit, Soft Carry Case/Holster, USB Cable, AC Charger, FlexReports - Basic Reporting Software with 60-day Trial, Reference Guide, 2 User-Selected APC Adapter Tips (ferrule and bulkhead), User-Selected One-Click	3506360
FOCIS-FLX-P4XN	FOCIS Flex Kit, Soft Carry Case/Holster, USB Cable, AC Charger, FlexReports - Basic Reporting Software with 60-day Trial, Reference Guide, No Tips	3506361
FOCIS-FLX-P4XU	FOCIS Flex Kit, Soft Carry Case/Holster, USB Cable, AC Charger, FlexReports - Basic Reporting Software with 60-day Trial, Reference Guide, 2 User-Selected UPC Adapter Tips (ferrule and bulkhead), User-Selected One-Click	3506362
FOCIS-LT2-UA	FOCIS Lightning Kit, soft carry case, AC charger, (1) UPC and (1) APC ferrule and bulkhead adapter tips, (2) One-Click MPO cleaners	3670113
FOCIS-LT2-UASF	FOCIS Lightning Kit, soft carry case, AC charger, (1) UPC and (1) APC ferrule and bulkhead adapter tips, (2) One-Click MPO cleaners, single fiber adapter	3670112
FOCIS-LT2-NW-UA	FOCIS Lightning No Wireless Kit, soft carry case, AC charger, (1) UPC and (1) APC ferrule and bulkhead adapter tips, (2) One-Click MPO cleaners	3670110
FOCIS-LT2-NW-UASF	FOCIS Lightning2 No Wireless Kit, soft carry case, USB cable, (1) UPC and (1) APC ferrule and bulkhead adapter tips, (2) One-Click MPO cleaners, single-fiber adapter	3670114



Each FOCIS Flex Kit includes: FOCIS Flex probe with wrist strap and dust cap, FlexReports-Basic software with 60-day reporting trial, AC charger with country-specific plug, USB cable, quick reference guide and soft carry case with strap.

FlexScan® FS200 Single-mode OTDR

All-in-one solution for detecting, identifying, locating and resolving single-mode optical network issues. It is designed for both novice and expert technicians working in a range of environments, from FTTH PON to point-to-point networks.

- Single, dual or triple wavelength single-mode OTDR
- Flexpress® mode completes OTDR tests in <5 seconds
- Easy to understand LinkMap® results with pass/fail indications
- Integrated source, power meter, VFL (visual fault locator)



Mfr. Model #	Description	BOR Part #
FS200-100-BAS-P0-W0	FS200-100 Basic Kit, 1310/1550 OTDR w/VFL, Soft Carry Case	3534300
FS200-100-PLUS-P1-W1	FS200-100 Plus Kit, 1310/1550 OTDR w/VFL, OLS/OPM, BT/WiFi, Fiber Ring, One-Click, Soft or Hard Case Option	3534304
FS200-300-BAS-P0-W1	FS200-300 Basic Kit, 1310/1550 PON OTDR, VFL, BT/WiFi, Soft Case	3534307
FS200-300-PLUS-P1-W1	FS200-300 Plus Kit, 1310/1550 PON OTDR w/ VFL, OLS/OPM, BT/WiFi, Fiber Ring, One-Click, Soft or Hard Case Option	3534312
FS200-303-PRO-P1-W1	FS200-303 PRO Kit, 1310/1550/1625 Live PON OTDR w/ VFL, OLS/OPM, Fiber Ring, One-Click, FOCIS Flex w/ 2 Adapter Tips, Soft Case	3534322
FS200-304-PRO-P1-W1	FS200-304 PRO Kit, 1310/1550/1650 PON OTDR, VFL, OLS/OPM, BT/WiFi, Fiber Ring, One-Click, FOCIS Flex, Soft or Hard Case Option	3534330

VFI4 Visual Fault Identifier

Injects high-powered red-laser light to provide exceptional brightness and range for locating defects in single-mode and multimode fibers.

- Eye-safe Class 3R visible red laser source, 650 nm
- 2.5 mm universal adapter (included) accepts FC, SC, ST, etc. connectors
- 1.25 mm universal adapter (included) accepts LC and MU connectors
- Output power of 5.0 mW with 10 km range
- VFI4-L is available with a reduced output power of 1.0 mW with 4 km range



Mfr. Model #	Description	BOR Part #
VFI4-01-0900PR	VFI4 Visual Fault Identifier with 2.5mm and 1.25mm Adapters	3544886

OFI-BIPM Optical Fiber Identifier

Easy-to-use tool that determines if a fiber is live, the transmission direction, and the relative core power on standard and bend-insensitive single-mode and multimode fibers.

- World-class signal detection sensitivity
- Positive-stop trigger lock for optimum detection
- Integrated optical power meter
- 2.4" color touchscreen with backlight



Mfr. Model #	Description	BOR Part #
OFI-BIPM	OFI-BIPM Optical Fiber Identifier with Integrated Optical Power Meter, Includes One 2.5mm Universal Power Meter Port Adapter, BIPM-00-25.	3507230

FlexScan® TS100 FTTH PON Troubleshooter

Automated setup, ultra-fast fault location and color-coded icons enable novice technicians to diagnose and repair fiber optic networks like experts.

- Locate faults in <3 seconds with the press of a button
- Displays link length, loss, ORL and pass/fail results
- Single-ended test reduces time and cost
- Rugged, lightweight, hand-held for field use



Mfr. Model #	Description	BOR Part #
TS100-60-PLUS-P2	TS100-60 Plus Kit, 1650 PON Fault Locator w/ Dual-OPM, VFL, Fiber Ring, Soft Case	3549130
TS100-60-PRO-P2	TS100-60 PRO Kit, 1650 PON Fault Locator w/ Dual-OPM, VFL, Fiber Ring, FOCIS Flex w/ Adapter Tips, Soft Case	3549131
TS100-70-PLUS-P2	TS100-70 Plus Kit, 1650 Extended Range PON Fault Locator w/ Dual-OPM, VFL, Fiber Ring, Soft Case	3549132
TS100-70-PRO-P2	TS100-70 PRO Kit, 1650 Ext. Range PON Fault Locator w/ Dual-OPM, VFL, Fiber Ring, FOCIS Flex w/ Adapter Tips, Soft Case	3549133

FlowScout SE100 Single-Ended Test Set

AFL's FlowScout SE100 is designed to verify fiber continuity and measure insertion loss to the end of fibers terminated with AFL's 1430 nm Wavelength Optical Reflectors. When a reflector is detected, the FlowScout SE100 immediately reports its presence (confirming continuity to the reflector) and measures insertion loss to the reflector at 1430 nm wavelength. The reflector is near-transparent to PON and other wavelengths, allowing it to remain installed during network operation.

- Reduce cost
- Shorten test time and eliminate setup errors
- Enhance customer experience
- Increase technician safety
- Ensure integrity of test results
- Complements subscriber-installed ONT initiatives



Mfr. Model #	Description	BOR Part #
SE100-00-0901PR	FlowScout SE100 kit includes the FlowScout SE100 test set, SC/APC to SC/APC patch cord to connect to network under test, reference 1430 nm Wavelength Optical Reflector, wrist strap and Quick Reference Guide in a convenient soft carry case.	3544886

Fiber Optic Solutions

Fiber Optic Products

Test and Inspection

FIP-400B Fiber Inspection Probes

These intelligent and automated test tools transform fiber inspection into a faster and simplified one-step process providing accurate and consistent test results, and preventing the reporting of false-positive results.



- Onboard connector end face analysis (IEC, IPC or User Defined)
- 100% Automated, one-step inspection process
- Pass/Fail LED indicator for screenless operation
- Full Reporting Capabilities
- Feature-rich ConnectorMax2 mobile application compatible with Android™ and iOS devices



Mfr. Model #	Type	Pass/fail Analysis	Autocentering	Magnification	Base Tip	BOR Part #
FIP-410B-APC-PROBEPOUCH	USB Wired	—	—	3X	APC	3539003
FIP-430B-APC-PROBEPOUCH	USB Wired	Automated	•	3X	APC	3539004
FIP-435B-APC-PROBEPOUCH	Wireless	Automated	•	3X	APC	3539005

FIP-500 Fiber Inspection Scope

Fastest inspection in the industry for single-fiber, multi-fiber and duplex connectors, with the most reliable results. Self-contained, fully automated tool for zero-button testing all day without the need to recharge batteries or offload results.



- Best-in-class optical performance for accurate and repeatable results
- Fastest inspection in the industry: connect to MPO 12 fiber, analyze and save test results in less than 10 seconds, and the capability to select and inspect active fibers only for even faster results
- Automated threshold adjustment with SmartTips
- Smartphone-grade 2.4" color touchscreen
- Compatible with FIP-400 tips
- Automatic detection of MPO connector layout up to 4 rows of 8/12/16/24 fibers

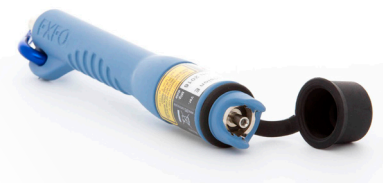


Mfr. Model #	Description	BOR Part #
FIP-500-KIT-3	MPO UPC and APC inspection Includes FIP-500-1 with interchangeable multi-fiber optical head (OHMF), MPO/UPC SmartTip (STIP-MPO-U), MPO/APC SmartTip (STIP-MPO-A) and soft carrying case (GP-10-071)	3670316
FIP-500-KIT-4	Single-fiber UPC bulkhead adapter and patchcord inspection Includes FIP-500-1 with interchangeable single-fiber optical head (OHSF), SC and FC/UPC bulkhead SmartTip (STIP-SC-FC-U), universal 2.5 mm UPC patchcord SmartTip (STIP-U2.5-U), LC/UPC bulkhead adapter SmartTip (STIP-LC-U), universal 1.25 mm UPC patchcord SmartTip (STIP-U1.25-U) and soft carrying case (GP-10-071)	3670317
FIP-500-KIT-5	Single-fiber APC bulkhead adapter and patchcord inspection Includes FIP-500-1 with interchangeable single-fiber optical head (OHSF), SC/APC bulkhead adapter SmartTip (STIP-SC-A), universal 2.5 mm APC patchcord SmartTip (STIP-U2.5-A), LC/APC bulkhead adapter SmartTip (STIP-LC-A), universal 1.25 mm APC patchcord SmartTip (STIP-U1.25-A) and soft carrying case (GP-10-071)	3670318

FLS-240 Pocket Pal — Visual Fault Locator

A straightforward solution for identifying breaks, bends, faulty connectors or splices, as well as other causes of signal loss. It can detect faults over distances of up to 5 km.

- Bright red laser at 635 nm
- Pulsed and CW operation
- 50 hours of operation (typical)
- Standard AAA alkaline batteries
- Rugged and weatherproof
- 2.5 mm universal connector



Mfr. Model #	Wavelength	Ferrule	BOR Part #
FLS-241-UNIV	630-645nm	Universal 2.5mm	2086340

MaxTester 720D access OTDR

Fully featured, entry-level, dedicated OTDR with tablet-inspired design; perfect for construction, troubleshooting and everyday field testing in any access network.

- Rugged, handy, lightweight, tablet-inspired design built for outside plant
- 7-inch, outdoor-enhanced touchscreen—the biggest in the handheld industry
- 12-hour autonomy
- Dynamic range of up to 36 dB in singlemode (SM) and 29 dB in multimode (MM)
- Event dead zone (EDZ) / Attenuation dead zone (ADZ): 0.7/2.5 m in SM; 0.5/2 m in MM, PON dead zone 35 m
- Live and dark fiber characterization, troubleshooting and activation through the same OTDR port
- FTTx in-service OTDR testing at 1650 nm with optional in-line GPON/XGS-PON power meter
- OTDR, light source and power checker through single port to optimize the fiber handling process
- Swap-Out connector, replaceable whenever necessary for optimal performance over time without undue service cost and downtime



Mfr. Model #	Description	BOR Part #
MAX-720D-Q1-QUAD-EA-EUI-91-EI-EUI-91-iCERT-iADV	Quad-wavelength OTDR for 850/1300nm and 1310/1550nm with SC/APC SM and SC/UPC MM connectors and advanced iOLM tier 2 certification	3669373

FTBx-730C - PON FTTx/MDU OTDR Kits

Seamlessly characterize splitters in PON FTTx and MDU applications.

- Test through high-port-count splitters (up to 1x128)
- Single-mode port for in-service troubleshooting with in-line 1490/1550 nm power meter
- iOLM-ready: one-touch multiple acquisitions, with clear GO/NO GO results presented in a straightforward visual format
- Dynamic range of up to 39 dB
- EXFO Connect-compatible: automated asset management; data goes through the cloud and into a dynamic database
- The highest resolution for PON testing and the shortest PON dead zone to find more problems closer to the splitter than any other OTDR
- Proven superiority in characterizing double-stage splitters and closely spaced events
- Swap-out connector: replaceable whenever necessary for optimal performance over time without undue service cost or downtime



Mfr. Model #	Wavelengths	Base Software	Connector	Power Meter	VFL	Inspection Probe	Probe Type	BOR Part #
MAX-730C-SM2-BSE1	1310/1550nm	OTDR and Adv iOLM SC/APC		1490/1550nm	•	FP410B	Wireless	3539009
MAX-730C-SM3-BSE1	1310/1550nm, 1625nm live	OTDR	SC/APC	—	—	FP435B	Wired	3539008

PPM-350D - Next-Gen PON Power Meter

The first PON-aware™ power meter to automatically detect and test next-gen and legacy PON technologies.

- Unique PON-aware™ capability automatically detects PON technology in use
- Compatible with GPON and EPON networks (GPON, EPON, XG-PON, XGS-PON, NG-PON2, 10G-EPON)
- Supports 10G-capable PON networks
- Pass-through mode for ONT/ONU verification
- Smart app to configure, execute and report jobs
- Compact, rugged and designed to comply with the IP54 enclosure standard
- Rechargeable battery lasts for up to 8 hours of continuous use



Mfr. Model #	Wavelengths	Base Software	Connector	BOR Part #
PPM-350D-DR-EA-EUI-91-EA-EUI-91-GP-10-071	E-PON, G-PON, XG-PON, XGS-PON, 10G-EPON, NG-PON2	PON Aware Dual PON and RF Video	SC/APC	3547884
PPM-352C-EA-EUI-91-EA-EUI-91-GP-10-071	B-PON, E-PON, G-PON	PON	SC/APC	3547885

Fiber Optic Solutions

Fiber Optic Products

Test and Inspection

OX1 Optical Explorer

The OX1 is a fiber optic tester that performs link verification and automated fault tracking in seconds. Empowers frontline technicians to explore further and do more.

- Patent pending EXFO Advisor 5-star rating scale: qualitative approach to assess fiber links
- Displays fiber length, loss and optical return loss (ORL) in under 3 seconds
- Intelligent: no settings required make it an essential for any frontline technician's toolkit
- On-the-spot detection and location of common causes of failures
- Built-in power checker and light source
- Click-out optical connectors and "self-diagnosis" let techs perform maintenance in the field
- Rechargeable battery for over 10 hours of use on a single charge



EXFO

Mfr. Model #	Software Version	Wavelengths	Connectors	BOR Part #
OX1-PRO-MI-91	Installation and Maintenance	1310/1550/1650nm	SC/UPC	3547883

MaxTester 945 Optical Loss Test Set (OLTS)

First tablet-inspired, multifunction optical loss test set (OLTS) delivering insertion loss, optical return loss and fiber length measurements at two wavelengths in five seconds via fully automated bidirectional FasTesT™ analysis.

- Unmatched FasTesT™ performances: 100% automated bidirectional test at two wavelengths under 5 seconds
- 100% automated fiber inspection: one-step process with pass/fail analysis at both fiber ends
- On-board assistant and diagnosis to eliminate reference errors
- Best-in-class singlemode distance range of 200 km
- On-board professional PDF reporting
- Bright, 7-inch high resolution touchscreen display — the biggest in the market



EXFO

Mfr. Model #	Wavelengths	Connector	VFL	Power Meter	Inspection Probe	Inspection Probe	Probe Type	Kit	BOR Part #
MAX-945-SM3-BSE1	1310/1550/1625nm	SC/APC	•	•	•	FP435B	Wireless	•	3539007

FiberXpert OTDR 5000

Troubleshoot, test, and analyze fiber optic cable events and faults, OTDR (optical time domain reflectometer), Tier 2 certifier for both multimode and singlemode fiber..

- Detect distance to splices, breaks, connectors, automatic macro bend radius, and end of cable using reflection and attenuation analysis
- Graphical display of event type
- Built-in microscope viewing of fiber end faces with optional USB fiber microscope to IEC 61300-3-35
- Multimode 850/1300 nm
- Singlemode 1310/1550 nm
- Event deadband less than 80 cm for measuring short fiber links, for example data centers
- Attenuation measurement and optical power level analyzer from one end of the fiber
- Pass/fail analysis to TIA/IEC standards
- Compliant to Tier 2 standards (OTDR) and Tier 1 standards light source power meter (LSPM)
- Professional reporting software, export



optimize!
softing

Mfr. Model #	Dimensions	Connector Types	Laser Safety Class	Distance Units	Display Range	Display Range	Display Resolution	CW Source	BOR Part #
226534	5" x 5.28" x 1.58"	FC, SC, DIN, ST	Class 1, 21 CRF	km, ft, miles	3.25 m to 260 km	1.25 dB to 55 dB	0.001 dB	-3.5 dBm	3555648

CableMaster VFL

Visual Fault Locator (VFL) for fiber continuity checking, break checking and helps identify other end of the fiber (polarity).

- Fiber optic visual fault locator (VFL) for singlemode and multimode fiber
- Detects mechanical damage to the fiber, such as breaks
- Finds fiber optic ends (polarity check)
- Beam range 5 km
- Generates visible light (red)
- Class 2 laser, less than 1 mW
- Includes 2.5 mm connector (SC, ST, FC) and screw adapter for 1.25 mm connectors (LC)



Mfr. Model #	Dimensions	Range	Wavelength	Transmission Power	Laser Class	Connector Type	Batteries	Housing	BOR Part #
226114	4.72" x 1.3" x 1.18"	Up to 5 km	Visible light, 635 nm (red)	< 1 mW	Class 2 (IEC 60825-1:2014)	2.5 mm connector, and 1.25 mm screw on available	AAA, non-rechargeable	Includes hanging strap, roll-proof, dust cap	3637890

CableMaster FO

CableMaster FO is a fiber optic power meter and RJ-45 wiremapper that fits in your pocket.

- Optical power meter measures power of 7 different wavelengths
- Display power or attenuation in dBm, dB, or mW
- USB rechargeable battery
- Built-in VFL (visual fault locator)
- Built-in RJ-45 patch cord tester / wiremapper
- Built-in flashlight
- Application recommendation: use LinkXpert M3 as a light source and use CableMaster FO as a power meter to measure power or attenuation across a fiber
- On-board storage of 50 measurements
- 2.5 mm port and adapter for 1.25 mm



Mfr. Model #	Dimensions	Batteries	Ports	Wavelengths	Accuracy	VFL Output	BOR Part #
226110	4.13" x 2.56" x 0.98"	AAA NiMH, USB rechargeable	2.5 mm optical power port, 1 RJ-45 port, 2.5 mm VFL	850, 1300, 1310, 1490, 1550, 1625, 1650 nm	±0.35 dB	0 dBm (1 mW)	3637889

LinkXpert M3

LinkXpert M3 helps you troubleshoot and test active ethernet infrastructure and devices over copper, fiber, or Wi-Fi.

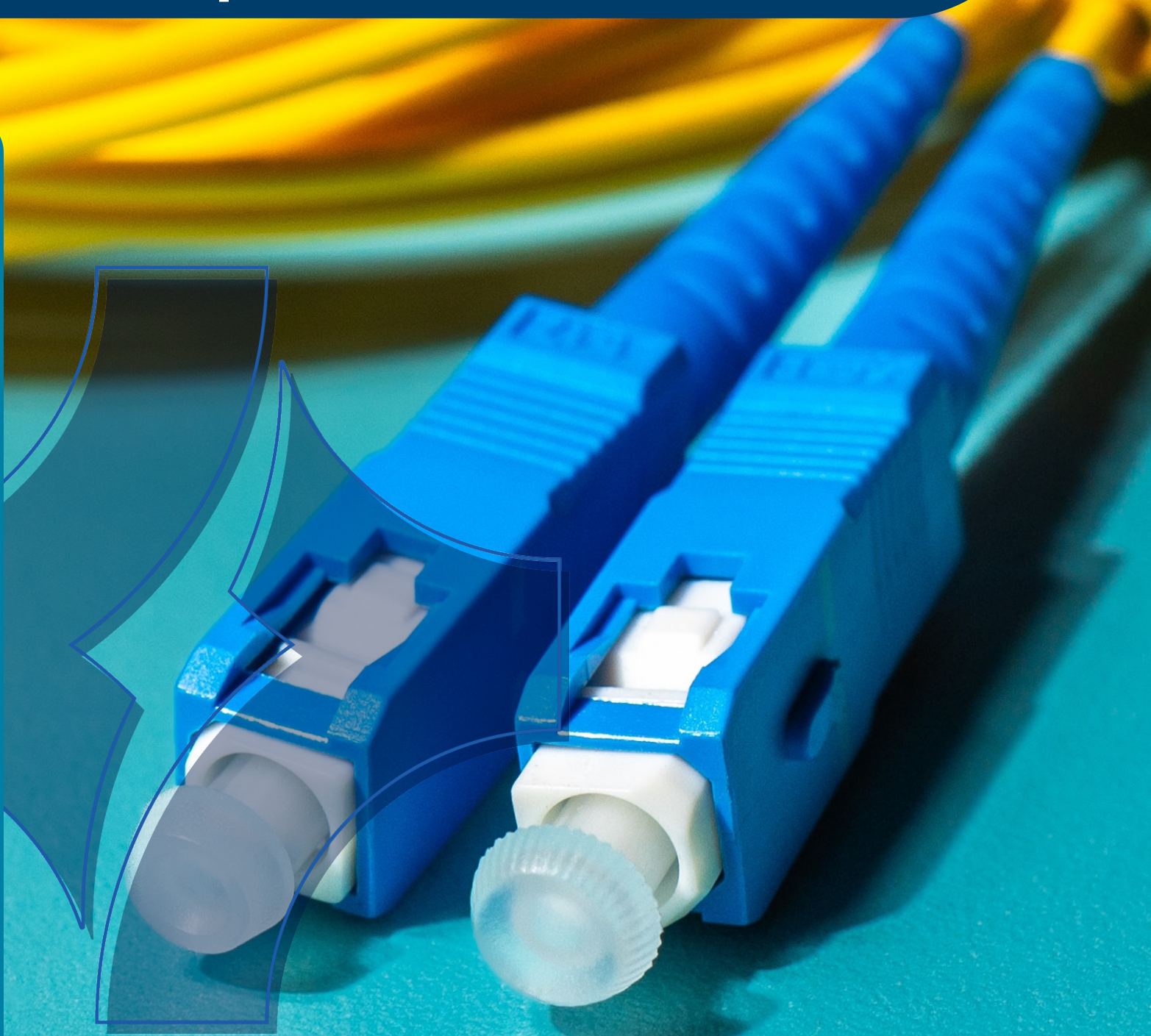
- Test network infrastructure by connecting to network switch over copper, fiber, or Wi-Fi and check DHCP, duplicate IP address, link speed, gateway address, subnet mask, DNS server, lease time, response time, network discovery, ping, traceroute, LLDP, CDP, VLAN detection
- Test wiremap, length of copper cables
- Check SFP configuration and properties
- Display Wi-Fi SSID and BSSID and signal level
- Test PoE to 90 watts including load test
- Built-in VFL
- Includes tone generator for copper cables
- Built-in flashlight
- Professional reporting



Mfr. Model #	Description	Deliverables	Dimensions	Screen Size	Battery	Voltage Protection	Copper Cabling	PoE	Fiber	BOR Part #
226104	LinkXpert M3	LinkXpert M3, cable and Ethernet testing for copper, fiber, and Wi-Fi, Includes 1 x main unit, 1x RJ45 remote, 2 x 50cm RJ45 patch cable, manual & carrying case	6.3" x 3.66" x 1.3"	5.25" Touch Screen	Li-Ion, rechargeable	60 VDC, 55 VAC	Twisted pair, RJ-45, Coax F (with optional accessories)	Up to Class 8, 90 W	via SFP Module, MM, SM, LC Connector	3563709
226105	Installer Accessory Kit	1 adapter RJ45 > coax F jack, 2 adapters RJ45 > RJ11, 7 wiremap smart remotes (#2-#8), 20 coax port identifiers (#1-#20), 24 RJ45 port identifiers (#1-#24), 2 coax F-adapters (female > female), 1 coupler BNC female > F female, 1 coax cable 0.5m (F male > F male), 7 test cables 0.5m (RJ45 - RJ45), 1 test cable (RJ45 > 2 alligator clips), 1 CP15 - Cable Probe (sound receiver), 1 carrying bag								3637891
226107	Industrial Accessory Kit	7 Wiremap Smart Remotes (#2-#8), 24 RJ45 port identifiers (#1-#24), 7 test cables 0.5m (RJ45 - RJ45), 1 test cable (RJ45 > 2 alligator clips), 1 CP15 - Cable Probe (sound receiver), 2 test cables RJ45 > pre-Link®, 2 M12 D-sockets for pre-Link®, 2 xM12 D connectors for pre-Link®, 2 M12 X sockets for pre-Link®, 2 M12 X connectors for pre-Link®, 1 carrying bag								3637888
226108	Fiber Optic Accessory Kit	1 OM4 testcable LC-LC duplex, 1 OS2 testcable LC-LC duplex, 1 SFP 1Gb/s MM 850nm, 1 SFP 1Gb/s SM 1310nm, 1 LC clickcleaner, 1 carrying bag								3565052

Fiber Optic Solutions

Fiber Optic Assemblies

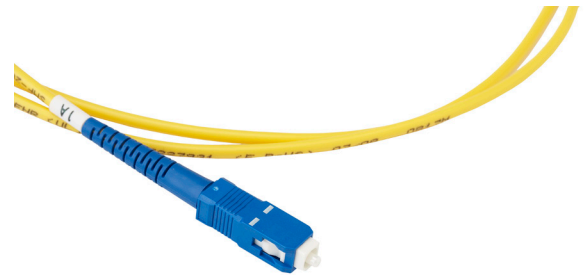


Assemblies

Indoor Fiber Patch Cords

Fiber optic patch cords and jumper cables for nearly any application, meeting your requirements for cost, performance, reliability and rapid delivery.

- Terminations are designed and tested to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Supports industry-standard singlemode and multimode connectors
- Singlemode and multimode and hybrid cables available
- Wide variety of jacket sizes available for all applications — 3mm, 2mm, 1.6mm, 1.2mm, 900µm
- Riser- and plenum-rated jacket options available
- Available in simplex, dual-round and dual zip-cord configurations
- Industry standard terminations include ST, SC, FC, LC (ask a Clearfield representative for other connector availability)
- Environmentally stable, low-insertion loss, minimal back reflection



Mfr. Model #	Length	BOR Part #
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, SC/UPC to SC/UPC		
PA1-001-AZB-AZB 001M	1m	2715799
PA1-001-AZB-AZB 003M	3m	2715870
PA1-001-AZB-AZB 005M	5m	3544975
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, SC/UPC to LC/UPC		
PA1-001-AZB-EZB 001M	1m	2715867
PA1-001-AZB-EZB 003M	3m	2715887
PA1-001-AZB-EZB 005M	5m	3544976
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, SC/UPC to FC/UPC		
PA1-001-AZB-JZB 001M	1m	2715807
PA1-001-AZB-JZB 003M	3m	2715810
PA1-001-AZB-JZB 005M	5m	3544977
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 3mm Jacket, SC/UPC to FC/UPC		
PA1-001-AZD-JZD 001M	1m	2477327
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, SC/APC to SC/APC		
PA1-001-CZB-CZB 001M	1m	2715824
PA1-001-CZB-CZB 003M	3m	3293395
PA1-001-CZB-CZB 005M	5m	3296605

Mfr. Model #	Length	BOR Part #
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 3mm Jacket, SC/APC to SC/APC		
PA1-001-CZD-CZD 001M	1m	2477331
PA1-001-CZD-CZD 003M	3m	2477333
PA1-001-CZD-CZD 005M	5m	2477335
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 3mm Jacket, SC/APC to Pigtail		
PA1-001-CZD-ZZD 001M	1m	3544978
PA1-001-CZD-ZZD 003M	3m	3544979
PA1-001-CZD-ZZD 005M	5m	3544980
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, LC/UPC to LC/UPC		
PA1-001-EZB-EZB 001M	1m	2715866
PA1-001-EZB-EZB 003M	3m	2715828
PA1-001-EZB-EZB 005M	5m	3544981
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, LC/UPC to FC/UPC		
PA1-001-EZB-JZB 001M	1m	2715838
PA1-001-EZB-JZB 003M	3m	2715843
PA1-001-EZB-JZB 005M	5m	3544982

For lengths, configurations and connector options other than those listed above, contact your BOR representative.

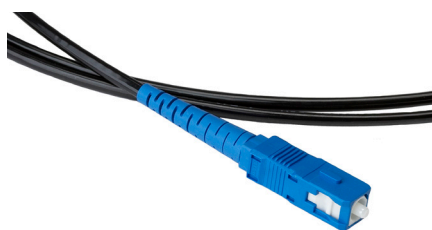
Fiber Optic Solutions

Fiber Optic Assemblies

Indoor/Outdoor Fiber Patch Cords

Ideal when splicing FTTH drops in the ONT/NID, remaining flexible even in extreme conditions.

- Use bend-insensitive fiber to help eliminate bend-radius issues inside the NID
- Also work well in outside plant cross-connect cabinets
- Terminations are designed and tested to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Supports industry-standard singlemode connectors
- Singlemode bend-insensitive ITU standard G.657.A glass fiber
- Uses Ruggedized OSP rated 2mm black jacketed cable
- Patch cords remain flexible and durable in extreme temperatures of -55°C to 85°C (-67°F to 185°F)
- Industry-standard terminations include ST, SC, FC, LC
- Environmentally stable, low-insertion loss, minimal back reflection
- All assemblies are 100% tested



Mfr. Model #	Length	BOR Part #
Fiber Patch Cord, Simplex Singlemode Bend-Insensitive OSP-Rated, Long Boots — 2mm Jacket, SC/UPC to SC/APC		
PEA-001-AZB-CZB 010F	10 ft.	3486499
PEA-001-AZB-CZB 020F	20 ft.	3486500
PEA-001-AZB-CZB 030F	30 ft.	3486501
PEA-001-AZB-CZB 040F	40 ft.	3486502
Fiber Patch Cord, Simplex Singlemode Bend-Insensitive OSP-Rated, Standard Boots — 2mm Jacket, SC/APC to SC/APC		
PEA-001-CZB-CZB 001M	1m	2790079
PEA-001-CZB-CZB 003M	3m	2862787
PEA-001-CZB-CZB 005M	5m	3329762
Fiber Patch Cord, Simplex Singlemode Bend-Insensitive OSP-Rated, Standard Boots — 2mm Jacket, SC/APC to LC/UPC		
PEA-001-CZB-EZB 001M	1m	2790082
PEA-001-CZB-EZB 003M	3m	2790080
PEA-001-CZB-EZB 005M	5m	3329765
Fiber Patchcord, Simplex Singlemode Bend-Insensitive G657.B3 Indoor/Outdoor (white) rated, Standard Boots - 4.8MM JACKET, SC/APC TO SC/APC		
PKWA-001-CZP-CZP 001M	1m	3670339
PKWA-001-CZP-CZP 003M	3m	3572697
PKWA-001-CZP-CZP 005M	5m	3670340
Fiber Patch Cord, Simplex Singlemode Bend-Insensitive OSP-Rated, Standard Boots — 2mm Jacket, LC/UPC to LC/UPC		
PEA-001-EZB-EZB 001M	1m	3450579
PEA-001-EZB-EZB 003M	3m	3452353
PEA-001-EZB-EZB 005M	5m	3452354

For lengths, configurations and connector options other than those listed above, contact your BOR representative.

Ruggedized DLC to DLC Distribution Cable

- Bend insensitive single mode fiber
- Indoor
- 1m length
- Black jacket color
- 6 mm dia over jacket

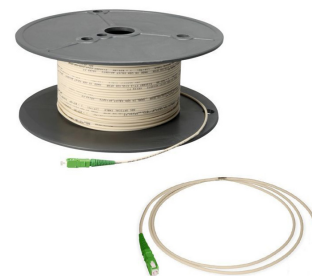


COMMScope®

Mfr. Model #	Description	BOR Part #
FJ-2SM-015-1M	Ruggedized DLC to DLC Fiber Cable	3386306

RealFlex® 3 Fiber Optic Drop Cable Assembly

- SC/APC to stub
- TIA/EIA-568-B.3
- RBR
- Green connector and boot
- Indoor/Outdoor
- Ivory jacket



COMMScope®

Mfr. Model #	Description	BOR Part #
MDC-J01F-0004FO	RealFlex 3 Drop Cable	2833234

Drop Assemblies

FieldShield® Pushable Assemblies

- Terminations are designed and tested to Telcordia GR-326
- Smooth wall protective sleeve is easily removed, and outer housing snaps into place
- Option for FlexConnector in YOURx applications
- Zirconia ceramic ferrule measuring 1.25mm O.D.
- Tool-less installation
- Tech-friendly pre-terminated pushable connectors rapidly decrease deployment times and reduce installation costs by eliminating in-field splicing

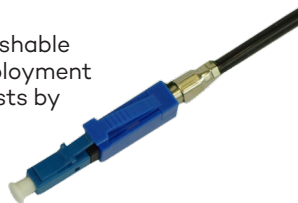


Mfr. Model #	Length	BOR Part #
FieldShield Pushable Patch Cord, Singlemode — 12-Fiber, 1x12 MPO Female to Pushable MPO Female		
FS-AA1-012-6ZZ-PZZ 0100F	100 ft.	3463932
FS-AA1-012-6ZZ-PZZ 0200F	200 ft.	3463796
FS-AA1-012-6ZZ-PZZ 0500F	500 ft.	3463800
FS-AA1-012-6ZZ-PZZ 0600F	600 ft.	3463801

Also available with singlemode SC/UPC, simplex and duplex LC/UPC and LC/APC connectors, as well as FlexConnector options — contact your BOR representative for details.

FieldShield® FLEXdrop Assemblies

- Terminations are designed and tested to Telcordia GR-326
- UL Listed for plenum applications
- Smooth wall protective sleeve is easily removed, and outer housing snaps into place
- Zirconia ceramic ferrule measuring 1.25 mm O.D.
- Tool-less installation
- Tech-friendly pre-terminated pushable connectors rapidly decrease deployment times and reduce installation costs by eliminating in-field splicing



Mfr. Model #	Length	BOR Part #
FieldShield FLEXdrop Pushable Patch Cord, Singlemode — One 900µm Fiber, 3mm UV-Stable Jacket, I/O Plenum, Standard SC/APC to Pushable SC/APC		
FS-AP2-001-CZZ-DZZ 0010F	10 ft.	3399817
FS-AP2-001-CZZ-DZZ 0025F	25 ft.	3400592
FS-AP2-001-CZZ-DZZ 0050F	50 ft.	3328338
FS-AP2-001-CZZ-DZZ 0075F	75 ft.	3328339
FS-AP2-001-CZZ-DZZ 0100F	100 ft.	3328340
FS-AP2-001-CZZ-DZZ 0150F	150 ft.	3444347
FieldShield FLEXdrop Pigtail, Singlemode — One 900µm Fiber, 3mm UV-Stable Jacket, I/O Plenum, Standard LC/UPC to Pigtail (No Connectors)		
FS-AP2-001-EZZ-ZZZ 0100F	100 ft.	3463805
FS-AP2-001-EZZ-ZZZ 0200F	200 ft.	3463804

Also available with singlemode SC/UPC, simplex LC/UP and LC/APC connectors, as well as FlexConnector options — contact your Border States representative for info.

FieldShield® SC and LC Pushable Assembly Accessories

Designed to simplify the deployment of fiber where one or two fibers are required — provide a tech-friendly field-assembled connector that snaps together in seconds without jeopardizing fiber protection or optical reliability.

- Greatly reduce installation costs for fiber to the home (FTTH) installations, business class services, cell backhaul or any other small count delivery application
- Terminations are designed and tested to Telcordia GR-326
- Smooth wall protective sleeve is easily removed, and outer housing snaps into place
- Zirconia ceramic ferrule measuring 1.25 mm O.D.
- Tool-less installation

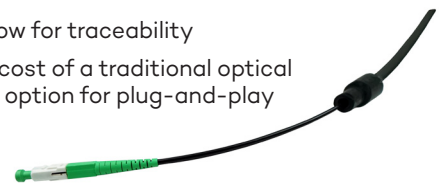


Mfr. Model #	Description	BOR Part #
FS-H-SCA-03	Fieldshield Housing Kit, SC/APC Housing For Pushable Connectors With Clearpass Dust Cap	3670341

Also available for singlemode SC/UPC, simplex LC/UPC and LC/APC connectors — contact your Border States representative for info.

FieldShield® FLATdrop Assemblies

- FlexConnector is designed and tested to GR-3120 using FieldShield FLATdrop
- Available in singlemode
- Supports most industry-standard flat drop cable
- FlexConnector provides an air-tight, water-tight connection
- FLATdrop peelable cable allows for the outer jacket to be stripped back to expose the more flexible 3mm sub-unit, easing storage of terminated ends
- Flat drop cable construction allows for installation in direct bury and aerial applications
- Toneable cables allow for traceability
- Leveraging the low cost of a traditional optical flat drop cable with option for plug-and-play field terminations



Mfr. Model #	Length	BOR Part #
Fieldshield FLATdrop Peel-n-Play Patch Cord, Singlemode — One Fiber. Toneable Flat Cable, Pushable SC/APC, Half-Meter 3mm Breakout to Pushable SC/APC		
FSH-U1-001-DCK-DCK-0010F	10 ft.	3544972
FSH-U1-001-DCK-DCK-0025F	25 ft.	3544973
FSH-U1-001-DCK-DCK-0050F	50 ft.	3486362
FSH-U1-001-DCK-DCK-0075F	75 ft.	3486363
FSH-U1-001-DCK-DCK-0100F	100 ft.	3486364
FSH-U1-001-DCK-DCK-0150F	150 ft.	3486366
FSH-U1-001-DCK-DCK-0250F	250 ft.	3486370

Pre-terminated with an SC, LC or MPO connector or with pigtail for customer choice application — contact your Border States representative for configurations not listed above.

Fiber Optic Solutions Installation and MRO Supplies



Cleaning Supplies

SCRUBS® Hand Cleaner Towels

SCRUBS® Hand Cleaner Towels combine an advanced cleaning formula with a strong, dual-textured towel to thoroughly clean hands and surfaces anywhere, anytime.

- Clean, citrus fragrance
- Advanced cleaning power
- For use on hands and surfaces
- No sticky residue



Mfr. Model #	Description	Specifications	BOR Part #
42272	Removes: Dirt, Tar, Oils, Grease, Paints, Adhesives, Epoxies, Caulks, Inks and Dyes, Urethanes, Lubricants, "Icky-PIC", Cable Jelly, Asphalt	NSF International, E4; Boeing D6-17487 Rev. R; Ford Tox #142621; GM FID #305639	1532843

WypAll® X60 Cloths

Pound for pound, WypAll® X60 Cloths absorb more than two times as much water as rags.

- Absorbent and reinforced to stay strong for cleaning performance in light duty tasks; they absorb water faster than rags
- Each white commercial paper towel measures 8.34" x 16.8" and dispenses one at a time from the box
- These lightweight cloths contain no adhesives or binders, yet they hold together and don't leave residues behind
- To create an effective general purpose industrial cloth, WypAll® combined proprietary HydroKnit fast absorbing technology with reinforced structure, so you get durability at a great value
- 126 cloths / box, 10 boxes / case, 1,260 cloths / case



Mfr. Model #	Color	Unit Size	BOR Part #
34790	White	8.34" x 16.8"	148366

MicroMax® NS Non-Skid Shoe Cover

MicroMax® NS provides the protection you need from dirt, grease, grime, light chemical splash.

- General purpose protection suitable for most Industrial applications
- Materials: 55 gram SBPP with laminated microporous film
- Non-skid protection
- Elastic ankle
- Economical
- Lightweight
- Features high MVTR (Moisture Vapor Transmission Rate)
- Fabric passes ASTM F1670 and ASTM F1671 for bloodborne pathogens
- Anti-stat treated per EN 1149



Mfr. Model #	Seam	Shoe Size	Case Size	BOR Part #
901NSP-XL	Serged	10-12	200 Pair/Case	2308354
901NSP-2X	Serged	13-15	200 Pair/Case	3243260

Grime-Away™ Cleaning Wipes

- Excellent cleaner: removes the toughest grimes
- Approval: salisbury by Honeywell approved hand cleaning for compatibility with rubber insulating gloves
- Field friendly: easy to store in truck bins
- Double sided towel: textured on one side for scrubbing and soft on the other side for wiping
- Moisturize: softens hands while cleaning tools and surfaces. Will not dry out hands



Mfr. Model #	Description	Units/Case	BOR Part #
HTC-D72	72-Count Grime-Away™ Wipe Canister	6	1435287

Fiber Optic Solutions

Installation and MRO Supplies

SpliceMaster® DT Dry Towels

Non-linting dry towels for medium voltage cable preparation.

- Versatile: use DT towels to apply bulk Polywater cleaners
- Non-linting: DT towels leave no residue that could lead to tracking
- Highly absorbent



Polywater®

Mfr. Model #	Description	Units/Case	BOR Part #
DT-1212	100-Count 12" x 12" Dry Towels	1	558220
DT-69	200-Count 6" x 9" Dry Towels	1	165340

Hydrasol® Cable Gel Remover

Water-based cleaner for removing cable filling greases.

- Fast and effective: maximum solvency power on PE/PJ or ETPR greases
- Clean: rinses completely with water
- Less waste: good for multiple cleanings
- Safe: no chlorinated solvent, CFC or glycol ether content
- Tailored for the job: available in a variety of convenient packages



Polywater®

Mfr. Model #	Description	Units/Case	BOR Part #
HS-1	HydraSol®-saturated Wipe	144	165314
HS-32LR	Plastic Qt HydraSol® w/Sprayer	12	165318
HS-64O	5-Gal HydraSol® Cable Gel Remover	1	557975
HS-D72	72-Count HydraSol® Wipe Canister	6	1950898

SpliceMaster® Sanding Cloth Rolls

Non-conductive sanding cloth for medium and high voltage cable prep.

- Non-conductive: SP-ROLL leaves no conductive grit that could lead to tracking or arcing
- Durable: SP-ROLL resists shredding and helps to evenly pencil semicon layer.
- Convenient: snip the SP-ROLL for desired amount. Eliminates waste
- System Approach: part of the SpliceMaster® cleaning system



Polywater®

Mfr. Model #	Description	Units/Case	BOR Part #
SP-ROLL	1" x 50-Yard Roll 120-Grit Sanding Cloth	1	558228

Hardware

Superstrut® Half-Slot Channel

SilverGalv® electro-galvanized steel finish for corrosion resistance.

- 1-5/8" x 1-5/8" industry-standard dimension
- 12-gauge steel construction
- 9/16" x 1-1/8" slots on 2" centers
- 10' lengths



ABB

Mfr. Model #	Description	BOR Part #
A1200HS-10-EG	Superstrut Half-Slot Channel, SilverGalv Finish, 10' Lengths	1108749

Steel City® Pipe Straps

Zinc-plated steel construction.

- One-hole and two-hole styles
- For use with rigid or intermediate metallic conduit



ABB

Mfr. Model #	No. of Holes	Screw Size	Conduit Size	BOR Part #
HS101	1	#10	3/8"	161595
HS901	2	#8	1/2"	161669
HS903	2	1/4"	1"	161684
HS907	2	1/4"	2-1/2"	161721

Superstrut® Universal Pipe Straps

Designed to be twist-inserted anywhere along the slot side of the strut channel.

- Bolt head is combination slot and hex head for flexibility of attachment
- SilverGalv® electro-galvanized steel finish for corrosion resistance
- For use with rigid or intermediate metallic conduit, pipe or electrical metallic tubing (EMT)



ABB

Mfr. Model #	Trade size	Pipe O.D. Range	BOR Part #
703-1-1/4-EG	1-1/4"	1.508" to 1.660"	599436
703-1-1/2-EG	1-1/2"	1.738" to 1.900"	599359
703-2-EG	2"	2.195" to 2.375"	599425

Hardware

TandB® Fittings and Steel City® Conduit Fittings

Designed for use with rigid or intermediate metallic conduit.

- High-quality fittings from industry-leading brands
- Conduit nipples, bushings and locknuts



ABB

Mfr. Model #	Description	BOR Part #
847	TandB® Fittings Malleable Iron Chase® Nipple, 2"	164120
BU506	Steel City® Insulated Nonmetallic Conduit Bushing, 2"	900857
BU510	Steel City® Insulated Nonmetallic Conduit Bushing, 4"	161281
LN103	Steel City® Zinc-Plated Steel Locknut, 1"	161895
LN106	Steel City® Zinc-Plated Steel Locknut, 2"	161922
LN201	Steel City® Die-Cast Zinc Locknut, 2"	619070
LN210	Steel City® Die-Cast Zinc Locknut, 4"	619158

Anchors

- Assorted anchors for secure hold to masonry and concrete



Mfr. Model #	Description	BOR Part #
21	#6-8-10 Tapered Anchors with Collar (Red)	112794
22	8-10-12 Tapered Anchors with Collar (Red)	112795
14H214	1/4" x 2-1/4" Hex Head Concrete Anchor System	113565
36H114	3/16" x 1-1/4" Hex Head Concrete Anchor System	112743
WD-8	#8 Wall Board Anchor Only Zinc	113811
14H114	1/4" x 1-1/4" Hex Head Concrete Anchor System	113557

Hex Head Cap Screws

- Carbon steel screws for medium strength applications, such as where controlled clamp force and high loads are required



Mfr. Model #	Description	BOR Part #
5MB12112	1/2" x 1-1/2" Hex Head Cap Screws Grade 5 Zinc Plated	113434

Pan Head Phillips Sheet Metal Screws

- Stainless-steel, self-tapping screws for fastening light metal sheets, wood and plastic



Mfr. Model #	Description	BOR Part #
PHSMSS61	6 x 1 Pan Head Phillips Sheet Metal Screws SS	997458
PHSMSS812	8 x 1/2 Pan Head Phillips Sheet Metal Screws SS	996951

Hex Nuts

- Carbon steel nuts connect both metal and wood components. Use with bolts, screws or any machine-threaded fasteners



Mfr. Model #	Description	BOR Part #
5HN12	1/2-13 Hex Nuts Grade 5	112757

Drywall Screws

- Single lead point and spaced threads create strong hold when fastening drywall to wood framing.
- Countersunk bugle head provides clean, finished look



Mfr. Model #	Description	BOR Part #
WR6114	6 x 1-1/4 Drywall Screws Phillips Bugle Head Coarse	232856

Hex Washer Head Self Drilling Screws

- Self-Drilling steel screws drill, tap, and fasten metal to metal objects in one operation, without the need to pre-drill



Mfr. Model #	Description	BOR Part #
TEKHW101	10 x 1 Hex Washer Head Self Drilling Screws	113242
TEKHW10112	10 x 1-1/2 Hex Washer Head Self Drilling Screws	113262
TEKHW102	10 x 2 Hex Washer Head Self Drilling Screws	113277
TEKHW8112	8 x 1-1/2 Hex Washer Head Self Drilling Screws	113221

Fiber Optic Solutions

Installation and MRO Supplies

Pan Head Slotted/Phillips Sheet Metal Screws

- Self tapping steel screws with spaced threads and sharp points that are capable of tapping their own threads
- Typical applications for Sheet Metal Screws include fastening light metal sheets, wood and plastic



Mfr. Model #	Description	BOR Part #
2WS81	8 x 1 Pan Head Slotted/Phillips (2-Way) SMS	114522

Slotted/Phillips Hex Washer Head Sheet Metal Screws

- Self tapping steel screws with spaced threads and sharp points that are capable of tapping their own threads
- Typical applications for Sheet Metal Screws include fastening light metal sheets, wood and plastic



Mfr. Model #	Description	BOR Part #
HWSMS101	10 x 1" Slotted/Phillips Hex Washer Head SMS Zinc	114406
HWSMS10112	10 x 1-1/2" Slotted/Phillips Hex Washer Head SMS Zinc	114422
HWSMS1012	10 x 1/2" Slotted/Phillips Hex Washer Head SMS Zinc	114393
HWSMS102	10 x 2" Slotted/Phillips Hex Washer Head SMS Zinc	114435
HWSMS103	10 x 3" Slotted/Phillips Hex Washer Head SMS Zinc	114449

Flat Head Phillips Wood Screws

- High degree of grip strength on all woods
- Countersunk head provides flush surface after installation



Mfr. Model #	Description	BOR Part #
PHFW634	#6 x 3/4" Flat Head Phillips Wood Screws Zinc Plated	192464

Zinc Plated Washers

- Help distribute tightening forces
- Flat washers prevent loosening due to vibration and act as spacers
- Fender washers cover oversized holes



Mfr. Model #	Description	BOR Part #
FENW14114	1/4 x 1-1/4 Fender Washers Zinc Plated	112838
FW12	1/2 Flat Washers Zinc Plated	114032
FW14	1/4" Flat Washers Zinc Plated	114021
LW12	1/2" Lock Washers Zinc Plated	114003

Sheet Metal Screw Kit

- Assorted Hex Washer Head Sheet Metal Screw kit that features six different sizes of #10 screws
- Sizes range from 1/2" to 2"
- Used to fasten light metal sheets, wood and plastic



Mfr. Model #	Description	BOR Part #
10HX	#10 Sheet Metal Screw Kit Hex Head/Slotted	114717

B-Line Series Multi-Grip Pipe Clamps for EMT, Rigid/IMC Conduit or Pipe

Pre-assembled to speed installation.

- For use with thinwall (EMT), Rigid/IMC conduit or pipe to clamp to strut channel
- Pre-assembled clamp and hardware for quicker installs
- Includes combination recess hex head machine screw and square nut
- Material: ASTM A1011 33,000 PSI min. yield
- Zinc finish
- Recommend to use with B-Line series strut
- UL Listed for U.S. and Canada
- For UL installations, follow Table 9 in UL2239
- Safety factor of 5



EAT-ON B-LINE SERIES

Mfr. Model #	Nominal Size	Material Thickness	O.D. Size Range	Weight Carton	BOR Part #
B2211PA-1-1/4-ZN	1-1/4"	14" Gauge	1.500"-1.691"	15 lb	238267
B2212PA-1-1/2-ZN	1-1/2"	12" Gauge	1.735"-1.931"	23 lb	238209
B2213PAZN	2"	12" Gauge	2.192"-2.400"	26 lb	238258

Hardware

B-Line Series Slotted Hole Channel

Standard strut channel for multiple electrical and mechanical support applications.

- Features heat code numbering to help users identify a structural-quality steel product
- Material: Pre-galvanized steel, ASTM A653 SS (CSA Type II) (structural grade)
- Finish: Pre-galvanized, (CSA Type II) ASTM A653 SS G90
- 33,000 PSI min. yield
- See B-Line series multi-grip pipe clamps for thinwall (EMT), Rigid/IMC conduit or pipe to clamp to strut channel



Crouse-Hinds Series Rigid/IMC Insulating Bushing



Mfr. Model #	Description	BOR Part #
936	Insulated, Plastic, 105°C, Threaded, 2"	775704
940	Insulated, Plastic, 105°C, Threaded, 4"	776171

EAT•N B-LINE SERIES

Mfr. Model #	Channel Type	Channel Dimensions (height)	Channel Dimensions (width)	Channel Hole Pattern	Material Thickness	BOR Part #
B22SHGALV10	Slotted Hole	1-5/8"	1-5/8"	9/16" x 11/8" Slots on 2" Centers	12" Gauge	115161

Crouse-Hinds Series Rigid/IMC Conduit Locknut



Mfr. Model #	Description	BOR Part #
13	Steel, 1"	775809
16	Steel, 2"	775806

Crouse-Hinds Series Rigid/IMC Straps



Mfr. Model #	Description	BOR Part #
410	Steel, 1/2", Heavy Gauge	775859
496-3	Galvanized Steel, 1/2", Two Hole	774986
496-5	Galvanized Steel, 1", Two Hole	147877
496-9	Galvanized Steel, 2-1/2", Two Hole	147884

Strap Kit for 3" Conduit with Two 1/2" x 1-1/4" Bolts

Aluminum conduit strap kit is used with T-Slot bars to secure conduit to riser poles. The head of the 1/2" hex bolt is captured within the slot and provides lateral adjustability of the conduit strap.

- Each strap kit is shipped assembled with two each 1/2" x 1-1/4" hex head bolts, lock washers and hex nuts
- Strap material is 3/32" x 1-1/4" aluminum



Mfr. Model #	Weight Ea	BOR Part #
CSTK3	0.49 lbs	871017

Crouse-Hinds Series Rigid/IMC Conduit Bushed (chase) Nipples



Mfr. Model #	Description	BOR Part #
55	Non-insulated, Malleable iron, 2"	147595

Fiber Optic Solutions

Installation and MRO Supplies

Two Hole Conduit/Cable/Wire Straps

- Made in USA
- UL Listed



Mfr. Model #	Description	Mounting Hole Screw Size	BOR Part #
240	Two Hole Strap, Fits 1/2" Rigid/IMC Conduit and SER Cable #2, Pre-Galvanized	3/16"	149499
260	Two Hole Strap, Fits 1" Rigid/IMC Conduit and SER Cable 4/0, Pre-Galvanized	3/16"	149510
280	Two Hole Strap, Fits 1-1/2" Rigid/IMC Conduit, Zinc	1/4"	149519
292	Two Hole Strap, Fits 2-1/2" EMT and Rigid/IMC Conduit, Zinc	1/4"	149529

One Hole Conduit/Cable/Wire Straps

- Made in USA
- UL Listed



Mfr. Model #	Description	Mounting Hole Screw Size	BOR Part #
MED40	Jiffy Clip, Medium Duty, One Hole strap, Fits 1/2" Rigid/IMC Conduit, Zinc	1/4"	149453
MED50	Jiffy Clip, Medium Duty, One Hole strap, Fits 3/4" Rigid/IMC Conduit, Zinc	1/4"	149458
MED60	Jiffy Clip, Medium Duty, One Hole strap, Fits 1" Rigid/IMC Conduit, Zinc	1/4"	149463
MED70	Jiffy Clip, Medium Duty, One Hole strap, Fits 1-1/4" Rigid/IMC Conduit, Zinc	5/16"	149467

Installation Accessories

3M™ Steel Barb Cable Ties

- Fast, tough hold for industrial applications
- Infinite locking positions to secure wire or cable
- Head design helps prevent snagging for fast, easy installation
- Ribbed body helps prevent slippage in high-vibration environments
- Available in several strengths and lengths to cover your needs
- Colors available in natural for indoor use and UV weather-resistant black for indoor and outdoor use
- UL Listed 62275 Type 21 or 21S
- Plenum Rated AH-2 for use in air handling spaces



Mfr. Model #	Type	Length in. (mm)	Width in. (mm)	Thickness in. (mm)	Max Bundle Diameter in. (mm)	Tensile lb (N)	Min Operating Temp °C (°F)	Max Operating Temp °C (°F)	Min Install Temp °C (°F)	Bag Quantity	BOR Part #
CTSB8BK50-C	Standard (Type 21S)	7.3 (186)	.19 (4,8)	.06 (1,5)	1.77 (45)	49 (220)	-40 (-40)	85 (185)	-40 (-40)	100	3462118
CTSB8BK50-M	Standard (Type 21S)	7.3 (186)	.19 (4,8)	.06 (1,5)	1.77 (45)	49 (220)	-40 (-40)	85 (185)	-40 (-40)	1000	3462120
CTSB11BK50-C	Standard (Type 21S)	11.6 (295)	.19 (4,8)	.06 (1,5)	3.19 (81)	49 (220)	-40 (-40)	85 (185)	-40 (-40)	100	3462122
CTSB15BK50-C	Standard (Type 21S)	14.8 (376)	.19 (4,8)	.06 (1,5)	4.21 (107)	49 (220)	-40 (-40)	85 (185)	-40 (-40)	100	3462127
CTSB15BK120-L	Light Heavy Duty (Type 21S)	15.7 (400)	.39 (10,0)	.07 (1,7)	4.29 (109)	124 (550)	-40 (-40)	85 (185)	-40 (-40)	50	3462131
CTSB4BK18-C	Miniature (Type 21)	4.0 (102)	.09 (2,4)	.04 (1,0)	.90 (23)	18 (80)	-40 (-40)	85 (185)	-40 (-40)	100	3462101
CTSB6BK40-C	Intermediate (Type 21)	6.1 (155)	.14 (3,6)	.05 (1,3)	1.37 (35)	40 (178)	-40 (-40)	85 (185)	-40 (-40)	100	3462114

Installation Accessories

Scotchlite 5005 Reflective Lettering System

- Black characters on a "safety orange" background conform to the American National Standards Institute (ANSI) Z53.1-1979. All other features are identical to 5000 Reflective Lettering System
- RUS Listed



CORNING

Mfr. Model #	Description	BOR Part #
80610613269	5005-0 Replenishment Decal	992207
80610613277	5005-1 Replenishment Decal	991976
80610613285	5005-2 Replenishment Decal	991975
80610613293	5005-3 Replenishment Decal	991974
80610613301	5005-4 Replenishment Decal	991973
80610613319	5005-5 Replenishment Decal	991972
80610613327	5005-6 Replenishment Decal	991978
80610613335	5005-7 Replenishment Decal	991977
80610613343	5005-8 Replenishment Decal	992209
80610613368	5005-A Replenishment Decal 1000 Pack	992206
80610613376	5005-B Replenishment Decal 1000 Pack	992205
80610613632	5005-BLANK Replenishment Decal 1000 Pack	991911
80610613384	5005-C Replenishment Decal 1000 Pack	991971
80610613392	5005-D Replenishment Decal 1000 Pack	991965
80610613624	5005-DASH Replenishment Decal	991912
80610613400	5005-E Replenishment Decal 1000 Pack	991964
80610613418	5005-F Replenishment Decal 1000 Pack	991963
80610613426	5005-G Replenishment Decal 1000 Pack	992204
80610613434	5005-H Replenishment Decal 1000 Pack	992203
80610613442	5005-I Replenishment Decal 1000 Pack	992202
80610613459	5005-J Replenishment Decal 1000 Pack	992201
80610613467	5005-K Replenishment Decal 1000 Pack	991970
80610613475	5005-L Replenishment Decal 1000 Pack	991969
80610613483	5005-M Replenishment Decal 1000 Pack	991968
80610613491	5005-N Replenishment Decal 1000 Pack	991967
80610613509	5005-O Replenishment Decal 1000 Pack	991966
80610613517	5005-P Replenishment Decal 1000 Pack	991910
80610613525	5005-Q Replenishment Decal 1000 Pack	991909
80610613533	5005-R Replenishment Decal 1000 Pack	991908
80610613541	5005-S Replenishment Decal 1000 Pack	991907
80610613558	5005-T Replenishment Decal 1000 Pack	991906
80610613566	5005-U Replenishment Decal 1000 Pack	991905
80610613574	5005-V Replenishment Decal 1000 Pack	991916
80610613582	5005-W Replenishment Decal 1000 Pack	991915
80610613590	5005-X Replenishment Decal 1000 Pack	991914
80610613608	5005-Y Replenishment Decal 1000 Pack	990390
80610613616	5005-Z Replenishment Decal 1000 Pack	991913

Pull Line

- 2-ply, rot- and mildew-resistant line used to pull rope through conduit
- Can be used with power fishing systems



Mfr. Model #	Description	BOR Part #
6502P	6500' Pull Line Two Ply Dispensing — Pail	112863

Nylon Fishing Line

- Used to fish cable through conduit
- Center feed for fast payout
- Excellent resistance to rot, abrasion, mildew, marine growth, petroleum products and most chemicals



Mfr. Model #	Description	BOR Part #
N85	2150' Nylon Fishing Line — Center Pull - 85#	229690

Fiber Optic Solutions

Installation and MRO Supplies

Dome-Top® Barb Ty Cable Ties

- Weather Resistant Nylon 6.6
- Dome-top head features unique patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability and infinite adjustability through entire bundle range
- High strength and low thread force
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- Greater resistance to damage caused by ultraviolet light — indoor or outdoor use



PANDUIT®

Mfr. Model #	Type	Length	Width	Thickness	Max. Bundle Dia.	Min. Loop Tensile Str.	Std. Pkg. Qty.	Std. Ctn. Qty.	BOR Part #
BT1M-CO	Miniature Cross Section	4"	.095"	.036"	.9"	18 lbs	100	1000	116661
BT1.5I-CO	Intermediate Cross Section	6.1"	.141"	.041"	1.5"	40 lbs	100	1000	565734
BT2I-CO	Intermediate Cross Section	8"	.141"	.041"	2"	40 lbs	100	1000	565655
BT3I-CO	Intermediate Cross Section	11.3"	.141"	.049"	3"	40 lbs	100	1000	565636
BT2S-CO	Standard Cross Section	8"	.185"	.045"	2"	50 lbs	100	1000	565889
BT2S-MO	Standard Cross Section	8"	.185"	.045"	2"	50 lbs	1000	10,000	565600
BT4S-CO	Standard Cross Section	15.1"	.185"	.052"	4"	50 lbs	100	1000	116656
BT4LH-LO	Light-Heavy Cross Section (straight tip)	14.9"	.275"	.065"	4"	120 lbs	50	500	565567

Pan-Ty® Striped Cable Ties

- Striped Pan-Ty® Cable Ties in 25 color combinations match the universally accepted Even-Count Color Code
- Solid color ties are available for identification of "super groups" in cable containing more than 600 pairs
- Each 50-piece package fits in the Pan-Pouch™ Kit or pocket pouch shown on the next page
- Nylon 6.6 material for indoor use



PANDUIT®

Mfr. Model #	Color	Length	Width	Thickness	Max. Bundle Dia.	Min. Loop Tensile Str.	Std. Pkg. Qty.	Std. Ctn. Qty.	BOR Part #
PLT1M-L1	Brown	4"	.1"	.036"	.82"	18 lbs	50	1000	565844
PLT1M-L1-4	Brown/Yellow Stripe	4"	.1"	.036"	.82"	18 lbs	50	1000	567439
PLT1M-L2	Red	4"	.1"	.036"	.82"	18 lbs	50	1000	567451
PLT1M-L3	Orange	4"	.1"	.036"	.82"	18 lbs	50	1000	565843
PLT1M-L5	Green	4"	.1"	.036"	.82"	18 lbs	50	1000	565840
PLT1M-L6	Blue	4"	.1"	.036"	.82"	18 lbs	50	1000	565841
PLT1M-L8	Slate	4"	.1"	.036"	.82"	18 lbs	50	1000	565842

Installation Accessories

FLEX CLIPS™

Flex Clips™ superior design will not pinch, compress, cut into or damage the cable. The integrity of the signal is unimpeded and the quality of the drop is assured.

- Housings made from proprietary UV-Stabilized Polyethylene
- Pre- inserted yellow zinc coated combination slotted, Phillips, hex-head screws are long lasting
- Wrap around the fiber/cable without exerting pressure
- Adjustable teeth allow the clips to expand



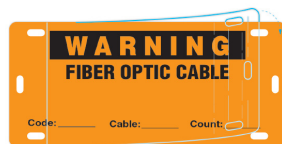
Telecrafter Products
Designing, manufacturing, and delivering quality drop supplies

Mfr. Model #	Description	Screw in Depth	Screw Type	Color	Quantity	BOR Part #
D4BK	Dual Series 6 Cable	1/2" Screw in Depth	Standard Screw	Black	Bag of 100	3075323
D7BK	Dual Series 6 Cable	7/8" Screw in Depth	Standard Screw	Black	Bag of 100	1488439
G4BK-03	3mm Fiber, Cat 3, Grnd. Wire	5/8" Screw in Depth	Standard Screw	Black	Bag of 100	2262820
G4BK-05	4+mm Fiber, Cat 5	9/16" Screw in Depth	Self-Tapping	Black	Bag of 100	2274963
G4WH-03	3mm Fiber, Cat 3, Grnd. Wire	5/8" Screw in Depth	Standard Screw	White	Bag of 100	3404778
G4WH-05	4+mm Fiber, Cat 5	9/16" Screw in Depth	Self-Tapping	White	Bag of 100	3480542
L7BK	RG 7and11 ONT Fiber, Power	7/8" Screw in Depth	Standard Screw	Black	Bag of 100	2262822
Q7BK	Series 6 Quad Cable	1/2" Screw in Depth	Standard Screw	Black	Bag of 100	2438386
S4BK	Series 6 Tri-Sheld, Cat 6	1/2" Screw in Depth	Standard Screw	Black	Bag of 100	3487582
S4WH	Series 6 Tri-Sheld, Cat 6	1/2" Screw in Depth	Standard Screw	White	Bag of 100	2864413
S7BK	Series 6 Tri-Sheld, Cat 6	7/8" Screw in Depth	Standard Screw	Black	Bag of 100	1480678
S7BK-ST	Series 6 Tri-Sheld, Cat 6	7/8" Screw in Depth	Self-Tapping	Black	Bag of 100	2571087
S7WH	Series 6 Tri-Sheld, Cat 6	7/8" Screw in Depth	Standard Screw	White	Bag of 100	3535169

FOC Tag

- 3.875" x 1.75" x .035" polyethylene
- Black on orange with self-laminating flap.

**WILLIAM
FRICK
& COMPANY**



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
FOCM-SL-GENERIC	Self-Laminating Fiber Optic Cable Tag	100	50 Per Pack	3539051

FOC Tag

- 3.875" x 1.75" polyethylene
- Black on orange

**WILLIAM
FRICK
& COMPANY**



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
FOCM-CAUT-GEN	Caution Fiber Optic Cable Tag	100	50 Per Pack	3539050

Lubricants

FTTx Communications Lubricant

Thin spray lubricant to lower tension in fiber drops and data cables.

- Superior performance: reduces friction with ultra thin coating levels
- Zero mess: dries quickly and leaves no mess on the receiving side of the cable pull, unlike traditional wax or gel lubricants
- Low-friction residue: even lubricates when dry
- Spray or Wipe Application: Efficient and easy to use
- Compatible with cable jackets: suitable for a variety of cable jacket types



Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
FTTx-128	1 Gal Jug Polywater® FTTX Lube	4	3330047
FTTx-35LR	Qt Spray Bottle Polywater® Lubricant FTTX	12	1950893
FTTx-640	5 Gal Pail Polywater® FTTX Lube	1	3535150
WFTTx-35LR	Qt Bottle FTTX Lube with Trigger Spray	12	3535153

Fiber Optic Solutions Installation and MRO Supplies

F Fiber Optic Cable Pulling Lubricant

For pulling fiber optic and other communications cable.

- Superior friction reduction: for lower tension and or longer cable pulls
- Wets out and coats PE jackets: lubricates at all points of cable rub on long pull
- Pourable: can be poured into innerducts and feeder tubes
- Compatible with cable jackets: avoid weakened or cracked cable jackets
- Slow drying: leaves a lubricious residue for lasting lubrication



Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
F-128	Gal Polywater® Lubricant F	4	165368
F-320	2.5-Gal Polywater® Lubricant F	2	165311
F-35	Qt Squeeze Bottle Polywater® Lubricant F	12	165375
F-640	5-Gal Polywater® Lubricant F	1	165381
WF-128	Gal Winter Grade Polywater® Lubricant WF	4	165378
WF-320	2.5-Gal Winter Grade Polywater® Lubricant WF	2	557778
WF-35	Qt Squeeze Bottle Winter Grade Polywater® Lubricant WF	12	3535152
WF-640	5-Gal Winter Grade Polywater® Lubricant WF	1	165313
WP-128	Gal Winter Grade Polywater® PreLube 2000™	4	782669

Prelube 2000™ Cable Blowing Lubricant

Increases installation distance when blowing fiber optic cable.

- Low friction: increases blowing distance
- Easy to use: simply squeeze into duct before blowing fiber optic cable
- Tested and approved: recommended by most blowing equipment manufacturers
- Winter grade available: for use in sub freezing temperatures
- Compatible with cable jackets: avoid weakened or cracked fiber optic jackets



Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
P-128	Gal Polywater® Prelube 2000™	4	782671
P-35	Qt Polywater® Prelube 2000™	12	558503
P-640	5-Gal Polywater® Prelube 2000™	1	782171
WP-35	Qt Winter Grade Polywater® PreLube 2000™	12	782670
WP-640	5-Gal Winter Grade Polywater® PreLube 2000™	1	782170

MRO

Energizer® Industrial Batteries

- Economical, high source of portable power for meters, flashlights and other devices



Energizer

Mfr. Model #	Description	Nominal Voltage	BOR Part #
EN22	9V Industrial Battery	9 Volts	107502
EN91	AA Alkaline Battery	1.5 Volts	107506
EN92	AAA Alkaline Battery	1.5 Volts	107508
EN95	D Alkaline Battery	1.5 Volts	107525

Power Accessories

CyberShield™ DC Power Supplies and ONT for Home and Business — Bulk Cable

The CSTII1000 Cybershield cables are unterminated and used for connecting battery backups to ONTs.

- Cable type: FTTx
- Length: 1,000 ft
- Color: Black
- Warranty: 3 year



CyberPower®

Mfr. Model #	Description	BOR Part #
CSTII1000	CSTII1000 Cybershield Cables are Unterminated and Used for Connecting Battery Backups to ONTs.	2461555

Power Accessories

Surge Protectors

Feature built-in automatic shutdown, lifetime warranties and connected equipment guarantees. Choose the series that best fits your needs: Home Theater, Professional, Essential and Rackbar™.

- Protect home and office computers, electronics and home theater equipment
- Surge Protection: Diverts excess voltage away from sensitive electronic equipment during an AC power surge or power spike to prevent damage.
- Automatic Shutdown: Protects connected electronics with the integrated circuit breaker which automatically switches off in the event of an overload that exceeds the model's ability to suppress the signal.
- EMI/RFI Noise Filter: Maintains clean power for connected equipment by filtering out electromagnetic and radio frequency interference to improve picture and sound quality.



CyberPower®

Mfr. Model #	Use	Joules	Outlets	Volts	Protection	Breaker	Cord	BOR Part #
6050S	Home Electronics	1500	6	120	RJ11	15A	4'	3264532
CSB606	Home, Office	900	6	125	900J	15A	6'	3320304
CSB604	Home, Office	900	6	125	900J	15A	4'	3144629

CyberShield™ FTTx Systems and Uninterruptible Power Supplies

Keep communications equipment, such as Internet and cable-reliant services, up and running during outages.

- Provides reliable FTTx Telecom solutions including fiber to the premise (FTTP) and fiber to the home (FTTH)
- CyberShield™ Battery Backup power communications equipment
- Telecom Cable Assemblies and Bulk Cables provide connectivity between power supplies and optical network terminals
- Protect sensitive electronics and equipment during power surges and blackouts with an Uninterruptible Power Supply (UPS) system from our extensive line including standby, line-interactive and double-conversion models, with backup capacities ranging from 350 VA to 10,000 VA
- Key features include sine wave output, energy-saving GreenPower UPS™ design, data-line protection and power management software
- Supplies Continuous DC Power to Local Power Network Interface Devices (NID), Cable Telephone Modems, Wireless Base Stations, Fiber to the Home (FTTH), Optical Network Terminals (ONT) and Integrated Access Devices — Features High-Function Design, Audible Alarm Signals with Silence Options, Microprocessor Intelligent Control, Telemetry Interface, User-Replaceable Batteries, LED Indicators and Three-Year Warranty.



CyberPower®

Mfr. Model #	Description	BOR Part #
CyberShield™ FTTx Systems for Interior Use		
CBN50U48A-1	48 VDC with Cold Start Functionality, Optional Extendable Runtime. Input Voltage Range: 90-264 VAC, On-Battery Output Voltage: 48 VDC, Rated Power: 50W, Battery: 12V/20Ah.	3513845
CSN27U12V-NA2	12 VDC with Cold Start Functionality, Optional Extendable Runtime. Input Voltage Range: 100-240 VAC (Universal Input), On-Battery Output Voltage: 12 VDC, Rated Power: 27W, Battery: 12V/7.2Ah.	3078914
DTC36U12V-NA3-G	12 VDC with Battery Emergency Functionality. Input Voltage Range: 90-264 VAC, On-Battery Output Voltage: 12 VDC, Rated Power: 36W, Battery: 12V/7.2Ah.	3219922

Mfr. Model #	Description	BOR Part #
CyberShield™ FTTx Systems for Exterior Installation		
CS150U48V3	48 VDC with Cold Start Functionality, Optional Extendable Runtime. Universal Input Voltage: 100-240 VAC, On-Battery Output Voltage: 48 VDC, Outdoor Use: IP X4 Protection Rating, Rated Power: 150W, Battery: 12V/7.2Ah; 2 Strings of 4.	3140640
CSN30C12V-E	12 VDC with Cold Start Functionality, Optional Extendable Runtime. Universal Input Voltage: 100-240 VAC, On-Battery Output Voltage: 12 VDC, Outdoor Use: Type 3R Protection Rating, Rated Power: 30 W, Surge Protection: 6kV, Battery: 12V/7.2Ah.	3513848

Fiber Optic Solutions Installation and MRO Supplies

UPS Systems

Protect sensitive electronics and equipment during power surges and blackouts. UPS Systems — Provide Battery Backup and Surge Protection with Standby Topology, Simulated Sine-Wave Waveform and Three-Year Warranty, Output: 120 VAC $\pm$ 5%, NEMA 5-15P Plug with 5 ft. Cord, and USB Communication Ports.

- Battery backup
- Surge protection
- Standby Topology
- Simulated SineWave
- GreenPower UPS high-efficiency design
- Ultra-quiet
- Transformer-spaced outlets



CyberPower®

Mfr. Model #	Description	BOR Part #
CP550SLG	Capacity: 550 VA / 330 W, Outlets: 8 x NEMA 5-15R, Connected Equipment Guarantee: \$100,000	2654157
SL700U	Capacity: 700VA / 370W, Outlets: 8 + 2 USBs	3606126

Safety

JoistMate® Attic Platform

- Secure in place between 16" OC (on center) or 24" joist spacings
- Weighs 10 pounds and holds up to 700 pounds



Mfr. Model #	Description	Minimum Order	Packaging	BOR Part #
JOISTMATE-1624	21.5" x 26.5" Platform to Traverse Wooden Attic Beams	2 Per Set	1 Set Per Box	3539057

Tapes, Adhesives and Sealants

Scotch® Super 33+ Vinyl Electrical Tape

Long-lasting with superior adhesion and handling in a wide range of temperatures and conditions. Scotch Super 33+ Vinyl Electrical Tape provides flexibility and easy handling for all around performance.

- Insulates and protects against abrasion and moisture
- Tape is flame resistant
- UL Listed and CSA Certified
- Suitable for indoor and outdoor use
- Lead free vinyl electrical tape
- Made in the USA



3M

Mfr. Model #	Size	Color	BOR Part #
33+SUPER-1-1/2X36YD	1-1/2" x 36 yds.	Black	788194
33+SUPER-3/4X66FT	3/4 x 66'	Black	114863
35-BLUE-3/4X66FT	3/4 x 66'	Blue	115233
35-GREEN-3/4X66FT	3/4 x 66'	Green	115241
35-RED-3/4X66FT	3/4 x 66'	Red	115226
35-WHITE-3/4X66FT	3/4 x 66'	White	115230
35-YELLOW-3/4X66FT	3/4 x 66'	Yellow	115237

Blackburn® Duct Seal

Seal openings from air, dust or water around EMT or rigid conduit raceway.

- Can be painted immediately after application
- No unpleasant odor
- Contains no asbestos
- Workable temperature range: -20° F to 121° F
- Service temperature range: -40° F to 250° F
- Not to be used for electrical insulation applications



ABB

Mfr. Model #	Description	BOR Part #
DX-1	Blackburn Duct Seal, 1 lb Slug	577994

Tapes, Adhesives and Sealants

CRC RTV Clear Silicone Sealant

For general purpose sealing, bonding and water-proofing. Clear formulation forms a barely visible water-tight seal.

- Economical for large jobs
- Convenient screw-on nozzle
- Plastic safe
- Meets requirements of Mil-A 46106 Type 1
- Meets NSF/ANSI Standard 51- Food Equipment Materials



Mfr. Model #	Fully Dry Time	Dry Time-Tack Free	Elongation Rate	Flash Point	Working Temperature	Shelf Life	BOR Part #
14073	24 hours	10 minutes	500%	>212°F	-70 to 400°F	5 Years	900698

RTV Silicon Sealant

- Single component, 100% silicone sealant that is ideal for interior and exterior sealing and caulking
- Adheres to metal, glass, marble, ceramic tile, porcelain, painted surfaces, and many more
- Can be used as an adhesive for bonding surfaces together and will not yellow or discolor in exterior applications



Mfr. Model #	Description	BOR Part #
RTV8	8 oz. RTV Silicon Sealant Clear — Pressurized Can	1349230

Handi-Foam Expanding Sealant

Moisture-cure polyurethane foam

Used to seal, bond, retrofit, insulate, and deaden sound in electrical, plumbing, air-conditioning and refrigeration applications

Specifically designed to be dispensed as a bead for filling cracks



Mfr. Model #	Description	BOR Part #
HF340	12 oz. Handi-Foam Expanding Sealant	115005

Duct Seal

- Seals around junction boxes, flashings and service entrances
- Permanently soft, non-toxic compound can be painted immediately after application
- Won't adversely affect other plastic materials or corrode metals



Mfr. Model #	Description	Quantity	BOR Part #
31-601	1 lb Block	Carton of 10	128048

Heavy Duty Gray CPVC Cement

- Heavy-bodied gray cement for use on all schedules and classes of CPVC pipe and fittings up to 12" diameter with interference fit
- Lo-V.O.C. Solvent Cement meets California South Coast Air Quality Management District (SCAQMD) 1168/316A or BAAQMD Method 40 and various environmental requirements
- For commercial hot and cold water systems up to 200°F / 93°C
- Recommended application temperature 40°F to 110°F / 4°C to 43°C
- Approved for Corzan® CPVC piping systems
- Meets ASTM F493



Mfr. Model #	Size	Quantity	Weight	BOR Part #
31036	16 oz.	24	25 lbs	1834366

AFT™ Spray Foam Sealant

For sealing conduits and risers from moisture, gases, and rodents.

- Quick installation: 2-minute application time or less
- Multiple-use can: creates numerous seals in all types of ducts
- Reliable: holds 10 feet of continuous water head pressure
- Durable: withstands cold temperature applications
- Removable: product can easily be removed to replace cable
- Creates airtight and watertight seal
- 6 applications per can (4 inch conduit)
- Flexible nozzle available for easy installation



Mfr. Model #	Description	Units Case	BOR Part #
AFT-16P4	Polywater® AFT™ Aerosol Foam Sealant (4/CS)	4	3436779
AFT-FAE10	Polywater® AFT™ Flexible Nozzles	1	3503797

Fiber Optic Solutions

Installation and MRO Supplies

Bonduit® Conduit Adhesive

Strong, watertight and airtight adhesive for HDPE conduit.

- Versatile: bonds HDPE to PVC, rigid steel, and fiberglass conduits and fittings
- Superior: stronger pullout strength than mechanical couplings
- Durable: bonds with high strength within an hour
- Easy to use: requires no special training
- Convenient kits: contains all application components required for a quick installation



Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
BT-KIT	Bonduit® Conduit Adhesive Kit	1	1548686
BT-KITB6	Bonduit® Adhesive Bulk Kit	1	1548694
BT-KITB6G	Bonduit® Adhesive Bulk Kit w/Dispensing Tool	1	1548693
BT-KITG	Bonduit® Conduit Adhesive Kit w/Dispensing Tool	1	1548695

PedFloor™ Pedestal Sealant Foam Barrier

Creates a hard foam barrier to prevent pest infestation.

- Deterrent: keeps rodents, snakes, and insects from entering the pedestal or cabinet
- Strong: structural foam matrix creates a strong seal
- Complete seal: flows and self-levels before expansion to prevent ground entry
- Versatile: can be used as a suspended floor or directly on the ground
- Protects: cured product offers permanent protection through weather extremes



Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
PF-1	PedFloor™ Sealant Burst Pack for 1 Square Foot	2	3002882
PF-2	PedFloor™ Sealant Burst Pack for 2 Square Feet	2	3535151

FST™ Foam Duct Sealant

For sealing conduits and risers from moisture, gases, and rodents.

- Meets NEC code requirements: 2011, 2014, 2017 NEC Articles 225.7, 230.8, 300.5 (G), 300.7 (A) on Raceway Seals, and 501.15 (B)(2)
- Reliable: holds 22 feet of water head pressure and up to 90-foot surges
- Seals multiple conduits: can seal conduits of all sizes and is reenterable
- Compatible: use with a wide range of cable jacket and conduit materials
- Solves critical application: Class 1 Div 2 locations and areas subject to temperature variations



Nozzles

Nozzles for Polywater sealants and adhesives.



Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
AFT-SAE10	Polywater® AFT™ Standard Nozzles	1	3535149
MXR-12T-10	Mixing Nozzle 10-Pak for Bonduit® and Pad N Pole™	1	3261842
MXR-30T-10	Mixing Nozzle 10-Pak for FST™ and UPR-PR™	1	3223516

Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
FST-250	8.5-Oz Foam Duct Sealant Cartridge (Caulk Style)	12	2971156
FST-250KIT	8.5-Oz Foam Duct Sealant Kit Bulk 6-Pack	6	2470667
FST-250KIT1	8.5-Oz Foam Duct Sealant Kit Single	1	2470328

Tapes, Adhesives and Sealants

ZipSeal™ Duct Sealant

A closed-cell foam duct sealing system for conduits up to 2".

- Protects: keeps water, gases, and rodents out of conduits
- Quick installation: Installs in just 45 seconds
- Reenterable: installed ZipSeal is quickly removed and resealed if necessary
- Multiple seals: one kit seals up to 5 2 inch conduits
- Meets NEC code requirements: 2014 NEC Articles 225.27, 230.8, 300.5 (G), 300.7 (A) on Raceway Seals, 501.15 (b)(2)



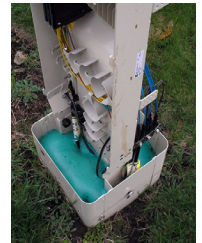
Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
ZIP-50KIT1	ZipSeal™ Duct Block (single kit)	1	3535154
ZIP-50KIT1G	ZipSeal™ Duct Block (single kit with tool)	1	3535155
ZIP-50KITB6	ZipSeal™ Duct Block (bulk kit)	1	3535156

Drain N' Seal® Pedestal Sealing Foam

Specifically designed for fiber pedestals to inhibit ground moisture penetration, Drain N' Seal® products minimize damage caused by condensation and water.

- Ideal for fiber pedestals and vaults
- Economical and easy to use
- Controls ground moisture penetration
- Re-enterable
- Provides a clean environment for open architecture fiber closure
- Convenient packaging reduces storage, transportation and waste costs
- RUS Listed
- Keeps rodents and pests out



Ura seal®

Mfr. Model #	Quantity (Grams)	Carton Quantity	Carton Weight	BOR Part #
URF110	110 Gram Pedestal Foam	32	11 lbs	3160298
URF220	220 Gram Pedestal Foam	24	15 lbs	3160299
URF660	660 Gram Pedestal Foam	12	20 lbs	3160300

Bull-Line Pull Tape

Facilitates installation by ensuring cables can be pulled through conduits efficiently and safely.

- Woven Polyester, woven, or Aramid Bull-line
- Can be pre-installed into conduit



dura-line

Mfr. Model #	Description	Tensile strength (LBS)	Tracer wire	Good blowability	Pre-installed ability	
6050S	Home Electronics	1500	6	120	RJ11	3264532
CSB606	Home, Office	900	6	125	900J	3320304
CSB604	Home, Office	900	6	125	900J	3144629

Fiber Optic Solutions Tools and Safety



Datacomm

Coax Crimp Tools

F Connector Compression Crimp Tool

- Crimps compression F connectors only
- Small compact design, 5 1/2"
- Great for working in tight spaces
- Crimps compression F connectors onto RG6Q/RG6/RG59 coax.

SealSmart F Connector Compression Crimp Tool

- Crimps SealSmart F connectors on RG59/6/6Q and RG11/7 coax cables
- Works with most other brands of compression F connectors with similar length on RG59/6 and RG11/7 coax cables
- High carbon tool steel frame
- Black oxide rust resistant finish
- Molded cushioned handle
- Patented rotating connector positioner



Mfr. Model #	Description	Connector Type	BOR Part #
16207C	F Connector Compression Crimp Tool	F	3636878
16212C	SealSmart F Connector Compression Crimp Tool	F	3636879

RJ-45 Crimp Tools

EZ-RJPRO HD Crimp Tool

- Zero flex frame prevents torque loss during the crimping cycle
- Tool steel die head assembly provides 360 degree of connector support during crimp
- Clean, ultra flush trim on the EZ-RJ45® extended conductors
- Expanded surface area on contact drivers delivers full, uniform crimp force
- Built-in cutter and stripper for flat and round cable
- Full surface to surface contact delivers uniform crimp force
- Laser marked with wiring guide for proper wire sequence

EXO Crimp Frame with EXO-EX Die

- Single cycle crimp and flush trim
- EXO Die™ is easily interchangeable
- Reversible EXO Die™ for ambidextrous operation
- Connectors lock into tool for correct positioning during crimp
- Push button lock for easy storage
- Ergonomic comfort grip TPR handles
- Includes EXO-EX Die™ for crimping ezEX™44 and ezEX™48 connectors
- Terminates larger cables and conducts Cat6 and Cat6A
- U.S. Patent No. 10,490,963 B2. Foreign patents.



Mfr. Model #	Description	Connector Type	BOR Part #
100054C	EZ-RJPRO HD Crimp Tool	EZ	2453973
100061C	EXO Crimp Frame with EXO-EX Die	ezEX	3357300
12507C	Tele-Titan™ Modular Plug Crimp Tool	Standard RJ11, 12, 45	2863394

Fiber Optic Solutions

Tools and Safety

Punchmaster™ II Impact Punchdown Tool for 110 and 66

USA made tool provides durability for repeated use and terminations.

- Includes both full 110 and 66 blades with cut./ no-cut tips
- Adjustable high/low actuation setting accommodates termination requirements
- Turn-Lock™ Style blade holding design
- Impact-absorbing cushioned grip reduces operator stress for high volume installers
- 5 blade types are available as replacements
- For data and phone punchdowns up to CAT6A conductor diameters
- Orange side denotes cut side of tool



Mfr. Model #	Description	Blade Storage	Color	# Blades Included	# Impact Settings	BOR Part #
35-485	Punchmaster™ II Impact Punchdown Tool	Yes	Orange/Blue	2	2	127895

Data T®-Cutter cable cutter and PrepPRO® Coax/UTP Cable Stripper

Provides compact coax cutting and simple 1/4" x 1/4" coax preparation.

45-074 cutter

- USA made with steel blades for cutting RG-6/59 to RG-11 coax
- Compact size is smaller and lighter than traditional 9" cable cutters
- Locking latch keeps tool closed in pouch
- Curved blades cut round copper cables and helps maintain cable geometry

45-605 PrepPRO

- USA made for preparing coax cables for compression connectors
- Pre-set 1/4" x 1/4" spacing requires no user adjustments — grey cartridge
- Auto adjusting blade depth for 6/6Quad/59 coax cable
- Also strips RG-59/6 Plenum cables
- Perfect for all IDEAL RG-6 or RG-59 compression connectors
- Blue cartridge is for CAT5e/6 jacket stripping



Mfr. Model #	Description	Cable Type	# of Cartridges	Material	BOR Part #
45-074	Data T®-Cutter	Coax/ Copper cables	N/A	Steel	316247
45-605	PrepPRO® Coax/UTP Cable Stripper	Coax/UTP/ STP	2	Plastic	2919056

Hand Tools

25AC Staple Gun

- Model 25AC IS designed to drive the specially configured staples to a pre-determined depth in most substrates, thus making it virtually impossible for the Broadband wires to be crushed.



Mfr. Model #	Description	BOR Part #
25AC	For Use With 18/3 AWG Bell Wire, CAT 5e, 6 Cable and Small Diameter RG6 Coax Cable	1704432
Staples		
652166	Unpainted Galvanized Steel, 1/4" Crown, 19/32" Leg Length	1704433

Magnetic Hex Tool

- Designed to drive hex head fasteners and provide additional reach and easy bit changing when needed
- Ideal for high torque applications they feature an industrial-strength magnet for maximum fastener retention.



Mfr. Model #	Description	BOR Part #
MT104	5/16 x 4" Magnetic Hex Tool	209019

D-Snip Cable Scissors

- High quality forged steel construction for strength and durability
- File and scraper on both blades for cleaning wire
- Notched blade for stripping 19 and 23 gauge wire
- Cuts up to 16 gauge solid and 12 gauge stranded wire
- Serrated blade for non slip wire cutting



Mfr. Model #	Description	BOR Part #
44300000	D-Snip Cable Scissors	984614

Hand Tools

Can Wrench with Hex Head Sockets

- Two hex head sockets (7/16 inch and 3/8 inch)
- Color-coded socket ends for quick size identification
- Wrench body constructed of tough, impact resistant, and abrasion resistant material
- Socket ends guaranteed not to split or break up to a maximum torque of 45 ft. lbs
- Nylon body ergonomically designed to mold to user



Mfr. Model #	Description	BOR Part #
44007000	Can Wrench with Hex Head Sockets	140561

Insulated Pocket Probe Pic Tool

- Trace and pull wires with pic end
- Kynar insulated tip protects against shorting adjacent components
- Compact size



Mfr. Model #	Description	BOR Part #
44600000	Insulated Pocket Probe Pic Tool	140572

Electrician's Scissors for Copper and Data Applications

Designed for use in telephone and electrical service applications.

- Cut up to 16 AWG solid and 12 AWG stranded wire
- Serrated surface on back blade edge cleans wire and straightens twisted pair conductors
- Stripping notches strip 19 and 23 AWG wire
- Chrome over nickel plating
- Made in Italy



Mfr. Model #	Description	Length	BOR Part #
35-088	Electrician's Scissors w/ Strip Notch, 5"	5.5"	642847

High-Leverage Cable Cutter

- High-leverage design cable cutters for exceptional cutting capability of 4/0 aluminum, 2/0 soft copper, 100-pair 24 AWG communications cable
- Cable Cutters feature precision, one-hand shearing action
- Cable-gripping shear-type jaws
- Beveled jaw tips provide proper mating and shearing action, which protects leading jaw edges
- Through-hardened (not case-hardened) for longer-lasting cutting surfaces
- Hot-riveted joint ensures smooth action and no handle wobble
- Custom US-made tool steel



Mfr. Model #	Description	BOR Part #
63050	High-Leverage Cable Cutter	128669

Katapult® Wire Stripper and Cutter for Solid and Stranded Wire

- Wire Stripper and Cutter cuts and strips 8-20 AWG solid and 10-22 AWG stranded wire with ease
- Compound action stripping: grip and strip via single-action squeezing motion
- Precision machined stripping holes easily remove insulation without damaging the wire
- Removes up to 1-Inch (25 mm) in length of the insulation layer (jacket layer) in a single step
- Tension loaded wire-grip gently holds the cable while retaining cable geometry
- Cast alloy chassis with heavy-duty Ecoat finish for corrosion resistance and durability



Mfr. Model #	Description	BOR Part #
11063W	Katapult® Wire Stripper and Cutter for Solid and Stranded Wire	2990611

Fiber Optic Solutions

Tools and Safety

Carbon Steel Hawkbill Pocket Knife

- Extra-large 2-5/8-Inch (67 mm) long curved hawkbill slitting-blade
- Ideal for heavy-duty line work
- Woodgrain plastic handle
- Blade locks open



Mfr. Model #	Description	BOR Part #
1550-4	Pocket Knife, Carbon Steel Hawkbill Slitting Blade	127624

6-1/2-Inch Cable Splicer's Knife

- Special-purpose short blade with comfortable, full-sized, heavy-duty handle
- Coping-type blade made of the finest cutlery steel, tough and carefully tempered to hold its edge
- Handle is textured for comfort and firm grip
- Hang hole for easy storage and portability



Mfr. Model #	Description	BOR Part #
44200	Cable Splicer's Knife, 6-1/2-Inch	127596

Cable Skinning Utility Knife w/Replaceable Blade

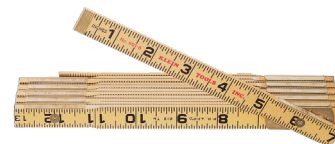
- This folding utility knife features a heavy-duty hawkbill blade that is easily replaceable to eliminate the need for sharpening
- Handle has rubberized grip and release lever for lockback mechanism
- Replaceable blade is held securely by a captive screw
- Thumb stud for easy opening and the pocket clip is easily accessible
- Replacement blades sold separately: a 440A stainless steel blade (Cat. No. 44219) and a versatile, straight coping blade (Cat. No. 44138)



Mfr. Model #	Description	BOR Part #	Repl Blade Mfr. Model #	Repl Blade BOR Part #
44218	Cable Skinning Utility Knife w/ Replaceable Blade	3341017	44219	3341018

Wood Folding Rule

- Strong, 6-foot (1.83 m) long hardwood rules with clear abrasion-resistant coating
- Black markings on yellow, with red stud center markings every 16 inches
- Measurements are marked on both sides and both edges, graduated to 1/16-Inch
- Riveted lock joints are designed for long wear and maintained accuracy
- Engraved graduations on both sides



Mfr. Model #	Description	BOR Part #
901-6	Wood Folding Rule	129773

16-Foot Magnetic Double-Hook Tape Measure

- Tape Measure with 13-foot standout of wide, tough and durable blade
- Uncluttered, easy-to-read bold lines marked on blade every 1/8 inch
- Heavy-duty, tough, durable nylon-coating protects blade printing and delivers longer blade life
- Retraction speed brake controls blade speed and protects fingers from touching blade
- Measurement scale printed on front and back sides of blade for versatility to address different types of measurements
- Double hook can secure tape to items such as studs, conduit, pipes, etc. on front or back side of blade to measure with either measurement scale
- Strong magnet on hook attaches to ferromagnetic objects such as steel studs, doors, panels, conduit, etc. for easy measuring



Mfr. Model #	Description	BOR Part #
9216	Tape Measure, 16-Foot Magnetic Double-Hook	2743642

Hand Tools

1/2 x 9/16-Inch Ratcheting Box Wrench

- Reverse ratcheting action by simply turning wrench over
- Laminated construction for greater strength
- Different size at each end
- Chrome-plated finish for rust resistance



Mfr. Model #	Description	BOR Part #
68202	Ratcheting Box Wrench 1/2 x 9/16-Inch	128984

8-Inch Heavy-Duty High Leverage Diagonal Cutting Pliers

- Diagonal Cutters cut ACSR, screws, nails and most hardened wire
- Pliers have high-leverage design, with rivet closer to the cutting edge for 36-Percent greater cutting power than other plier designs
- Short jaws and beveled cutting edges permit close cutting of wire
- Induction hardened cutting knives for long life
- Hot-riveted joint ensures smooth action and no handle wobble
- Plastic-dipped handles for comfort and ease of identification
- Custom, US-made tool steel



Mfr. Model #	Description	BOR Part #
D2000-28	Diagonal Cutting Pliers, Heavy-Duty, High-Leverage, 8-Inch	129223

6-Inch Long Nose Side Cutters

- Induction hardened cutting knives for long life
- Knurled jaws for sure wrapping and looping
- Slim head design for working in confined areas
- Hot-riveted joint ensures smooth action and no handle wobble
- Curved handles provide greater tool control
- Plastic-dipped handles for comfort and ease of identification
- Custom, US-made tool steel



Mfr. Model #	Description	BOR Part #
D203-6	Long Nose Side-Cutters, 6-Inch	129121

Journeyman™ Pliers

- Cuts ACSR, screws, nails and most hardened wire
- Three styles — Diagonal Cutters, Side Cutters or Lineman's
- High-leverage design — Rivet is closer to the cutting edge for 46-percent greater cutting and gripping power than other plier designs
- Induction hardened cutting knives for long life
- Hot-riveted joint ensures smooth action and no handle wobble
- Streamlined design with sure-gripping, cross-hatched knurled jaws
- Unique handle tempering helps absorb the "snap" when cutting wire
- Dual-material Journeyman™ handles provide a better grip without sacrificing tool strength and durability
- Hard, black material for toughness and durability
- Soft material on outer surface for comfort and a firm grip
- Color-coded handles allow quick identification of the tool
- Features combination polished and black-oxide finish
- Custom, US-made tool steel



Mfr. Model #	Description	BOR Part #
J2000-28	Diagonal Cutting Pliers, Heavy-Duty, 8-Inch	1177132
J2000-9NE	Lineman's Pliers, 9-Inch, Journeyman Handle	1175070
J213-9NE	9-Inch Journeyman™ Pliers Side Cutting	1175068

7-Piece Nut Driver Set

- Tool Set has general-purpose selection of the most frequently used nut drivers
- Nut Drivers full hollow 3-Inch shafts facilitate work on long bolt applications
- Cushion Grip handles allow for greater torque and comfort
- Tip-Ident® quickly identifies nut driver hex orientation and size by colorcoding the handle ends so you can easily engage the nut driver with the fastener
- Internal flanges provide solid, twist-resistant shaft anchor



Mfr. Model #	Description	BOR Part #
631	Nut Driver Set, 3-Inch Shafts, Cushion Grip, 7-Piece	128718

Fiber Optic Solutions

Tools and Safety

3/16-Inch Cabinet Tip Screwdriver

- Precision-machined tip provides accurate fit and torque without slippage
- Tip-Ident® quickly identifies the screwdriver type and tip orientation
- Cushion-Grip handle for greater torque and comfort
- Premium chrome-plated for smooth feel and corrosion resistance
- Internal flanges inside handle provide solid, twist-resistant blade anchor
- Special heat-treated shafts
- Meets or exceeds applicable ASME / ANSI specifications



Mfr. Model #	Description	BOR Part #
601-3	3/16-Inch Cabinet Tip Screwdriver 3-Inch Shank	129436

Phillips Screwdrivers

- Precision machined Phillips tip provides a more consistent geometric symmetry than conventional Phillips screwdrivers to accurately fit and torque without slippage
- Tip-Ident® quickly identifies the screwdriver type and tip orientation
- Cushion-Grip handle for greater torque and comfort
- Premium chrome-plated for smooth feel and corrosion resistance
- Internal flanges inside handle provide solid, twist-resistant blade anchor
- Special heat-treated shafts
- Meets or exceeds applicable ASME / ANSI specifications



Mfr. Model #	Description	BOR Part #
603-3	#1 Phillips Screwdriver, 3" Round Shank	129482
603-4	#2 Phillips Screwdriver 4" Round Shank	129485

1/4-Inch Cabinet Tip Screwdriver

- Narrow cabinet tip permits blade access where space is limited
- Cushion-Grip handle for greater torque and comfort
- Premium chrome-plated for smooth feel and corrosion resistance
- Internal flanges inside handle provide solid, twist-resistant blade anchor
- Special heat-treated shafts
- Precision-machined tip for exact fit
- Meets or exceeds applicable ASME / ANSI specifications



Mfr. Model #	Description	BOR Part #
605-4	1/4-Inch Cabinet Tip Screwdriver 4-Inch Shank	129501

4-Piece Mini Slotted and Phillips Screwdriver Set

- Screwdriver Set includes one Phillips-tip, one keystone-tip and two cabinet-tip screwdrivers
- Mini Cushion-Grip handles for superior comfort and grip
- Tip-Ident® quickly identifies the type of screwdriver and tip orientation
- Precision tips for an exact fit and rigorous applications
- Premium chrome-plated shafts for corrosion resistance
- Meets or exceeds applicable ASME / ANSI specifications



Mfr. Model #	Description	BOR Part #
85484	Screwdriver Set, Mini Slotted and Phillips, 4-Piece	2023077

Utility Knives

Durable construction and comfortable grip for extended use.

- Extremely durable stainless steel nose — One piece titanium coated nose resists wear and eliminates spreading
- Longest lasting utility blades — Three shatterproof titanium edge blades included
- Easy blade change — Quick blade release allows rotation or changing of blade without opening handle
- Internal blade storage — Retractable knife stores up to five blades
- Fixed knife stores up to ten blades
- No tool needed to open



Mfr. Model #	Description	BOR Part #
20353-SSRK1	LENOX Gold® Quick Change Retractable Knife	1578767

Utility Blades

Titanium edge for maximum blade life.

- Lasts longer — High speed steel edge with titanium coating keeps blades cutting after others have quit
- Shatterproof — Patented bi-metal construction allows blades to bend and flex without breaking
- Makes deeper cuts — Four notch design allows blade to extend further
- Fits all standard utility knives
- Cuts the toughest materials — Dry wall, insulation, flooring, roofing and more



Mfr. Model #	Description	BOR Part #
20350GOLD5C	5-Pack	1572894
20351GOLD50D	50-Pack	1572893
20352GOLD100D	100-Pack	1572892

Hand Tools

Pumps and Tools

- LP-D5 Drill-powered Pump for 5-gallon/18.9 liter pail, or 55-gallon/209 liter drum
- Includes 2 applicators
- Requires 1/2" drill (not included)



Polywater®

Mfr. Model #	Description	Units Case	BOR Part #
LP-D5	Polywater® Drill-Operated Lubricant Pump	1	1408973
TOOL-250	Applicator Gun for FST, UPR, and SDP Sealants	1	2971182
TOOL-50-11	Applicator Gun for BT, EPCT, and SDP Sealants	1	2990618

Streamlight Headlamps, Penlights and Flashlights

Septor® Headlamp

- Meets needs for close work where seeing details is critical
- Pushbutton switch is easy to use when wearing gloves
- Three lighting modes
- Maximum Lumens: 120
- Beam Distance: 60 meters
- Candela Levels: 900 (High), 375 (Med), 100 (Low)
- Runtime Levels: 3.5 Hrs (High), 10 Hrs (Med), 55 Hrs (Low)
- Stylus® Pro Penlight
- With pushbutton tail switch for momentary or constant light
- Maximum Lumens: 100
- Beam Distance: 62 meters
- Candela Levels: 950 (High), 73 (Low)
- Runtime Levels: 8 Hrs
- Microstream® Pocket Flashlight
- Clips to pocket or onto brim of hat
- Maximum Lumens: 45
- Beam Distance: 41 meters
- Candela Levels: 420
- Runtime Levels: 2.25 Hrs



Mfr. Model #	Description	Material	Color	Batteries	BOR Part #
61052	Septor Headlamp	Thermoplastic	Yellow	3 AAA Alkaline	1720932
66118	Stylus Pro Penlight	Aluminum	Black	2 AAA Alkaline	2323131
66318	Microstream Flashlight	Aluminum	Black	1 AAA Alkaline	2323129

RB-2 Gun and Clip System for Series 6 Standard and Tri Shield

The RB Clip Gun System is the only "hand tool applied" cable fastening system that ensures a perfect cable installation.

- Eliminates staple nicks, pinching and compression
- Eliminates accidental damage from hammer blows and kinked staples
- For use installing cable onto wooden surfaces
- Lightweight clip guns are easy to load and shoot
- Tool refurbishments are complimentary



Telecrafter Products

Designing, manufacturing, and delivering quality drop supplies

Mfr. Model #	Description	Quantity	Color	BOR Part #
RB-2	RB-2 Cable Clip Gun for Standard RG6 and Tri Shield	Each	N/A	3284840
O6ES	Series 6 Standard and Tri-Shield Clips	Box of 400	Black	3293150

Linemen's Tools

Titanium Pole Climbers

- Features 21391 nylon foot straps
- 350 lbs weight capacity



Mfr. Model #	Material	Sleeves	Width	BOR Part #
TB94089A	Titanium	16.25"–18.75" Adjustable	4.5"	2730388

Cushion Wrap Pad With Cinch Loop and Angled Insert for Titanium/Steel Climbers

- 4" angled design
- Cinch Loop for easy adjustment and tight fit
- Metal insert designed to keep the climber shank stationary to reduce chafing to the leg
- 3/4" cushion padding for comfort
- Maximum adjustability
- Rolled edge to prevent chafing
- Compatible with Buckingham titanium and steel climbers



Mfr. Model #	Material	Closure Type	Width	Height	Weight	BOR Part #
3502C	Leather/Felt	Hook and Loop	4"	7.5"	1.5 lbs	1968681

Fiber Optic Solutions

Tools and Safety

Climber Footplate

Two footplates, one with a rubber sole that faces down, fasten together on the climber stirrup with two screws. Not for use with aluminum climbers.

- Great for those new to climbing or at a training school putting in long hours on their hooks
- Very popular amongst arborists on the West Coast
- Perfect addition for those bigger in stature as the climber footplate distributes weight more evenly across your foot instead of only on the balls of your feet



Mfr. Model #	Material	Length	Width	Weight	BOR Part #
35033	Steel	9"	3.5"	2.5 lbs	3246659

Long Cover Hook

- Meets or exceeds ANSI / SCTE 77 Tier Ratings
- High strength and durability
- Cost effective
- Nonconductive and nonflammable
- Stable under freeze / thaw conditions
- Impact resistant
- All hardware is hot dip galvanized or stainless steel
- Custom logos and colors available
- Polymer materials do not rust or corrode



Mfr. Model #	Description	Size	Material	BOR Part #
C082908	Long Cover Hook	27"	Electroplated	228796

Bucket Hook

- Durable impact resistant construction
- Hangs aprons, oval bags, and other storage solutions
- Durable polymer
- Compatible with Milwaukee Tool 10,000PSI hydraulic pump
- Survives all weather
- Fits standard eyelets on tool aprons and bags
- 100lb weight capacity
- Secure fit



Mfr. Model #	Size	BOR Part #
42-22-8293	3"	3535018

Locators

3M™ Dynatel™ Cable/Pipe Locator 2200 and 2200M Series

Offering a broad feature set with advanced digital processing, the 3M™ Dynatel™ Locators 2200 and 2200M Series combine simple interfaces with precision locating capabilities.

- Four active trace frequencies which can be used individually or simultaneously to compensate for varying field conditions. The receiver incorporates passive power and auxiliary frequencies that do not require the use of the transmitter
- Graphic display to distinguish between targeted cable and other cables in congested area
- Four modes of operation — dual peak, dual null, differential and special peak — for accurate locates, even in the most challenging field conditions
- Direct connect cable with small clips on both models
- Four active frequencies
- 3" Dyna-coupler



Mfr. Model #	Locate Capability	EMS Frequencies	Transmitter Output	GPS Compatible	BOR Part #
2273M-ID/UC5W-RT	Cable/Pipe/Fault/Electronic Marker	8	5	Yes	1721344
2273-U5T3/A	Cable/Pipe/Fault	—	5	No	1680456

Safety

Wasp and Hornet Killer PLUS™ Insecticide

Fast acting, high strength insecticide knocks down and kills wasps, hornets, fire ants, scorpions and black widow spiders on contact.

- Ergonomic trigger provides control even with gloved hands
- Safe on most plastics
- Extension tube doubles as a locking mechanism to prevent accidental spray of product
- High dielectric strength of 47,600 volts
- Safety Data Label (S.D.[L.]® right on the can — a CRC exclusive
- Contains no chlorinated solvents
- Accurate spray up to 20' away will drench harmful insects and their nests



Mfr. Model #	Appearance	Odor	Residue	Flash Point	Shelf Life	VOC %	BOR Part #
14010	Clear liquid	Petroleum	Yes	205°F	10 years	1.4%	117970

Safety

Ambi-dex® Turbo Disposable Powdered 5 mil Nitrile Gloves

Disposable Nitrile Glove, Powdered with Textured Grip — 5 mil.

- Economical puncture resistance with great comfort, dexterity and tactile sensitivity
- Textured grip provides a good grip in wet or dry environments
- Contains no natural rubber latex proteins
- Ambidextrous and powdered for quick and easy donning
- Made from component materials that comply with Federal Regulations for food contact, 21 CFR 177.2600
- Industry Grade - For non-medical use
- Blue



Mfr. Model #	21 CFR	Size	Box Count	BOR Part #
63-332L	Yes	Large	100	1387974
63-332XL	Yes	X-Large	100	1413190

Ztek Safety Glasses

Straight back flexible temples provide outstanding fit.

- Economical wrap-around single lens with panoramic view
- Scratch resistant polycarbonate lens
- Lens provides 99% UVA/B/C protection
- Integrated nosepiece
- Soft non-slip rubber temple tips provide non-binding fit
- Ztek is available in Mini and Reader options



PYRAMEX

Mfr. Model #	Description	BOR Part #
S2510S	Clear Frame/Clear Lens, Weight: 21 gm	1249320
S2520S	Gray Frame/Gray Lens, Weight: 21 gm	1249302
S2575S	Blue Mirror Frame/Blue Mirror Lens, Weight: 21 gm	1249298

Economy Grade Leather Drivers Gloves

- Top Grain Pigskin leather construction provides great breathability due its porous texture, becomes softer with use and withstands moisture without stiffening.
- Top Grain leather is smooth, provides durability and dexterity
- Drivers gloves feature slip-on cuff styling to provide good fit and comfort
- Keystone thumb is ergonomic, reduces hand fatigue, offers superior dexterity and durability
- Elastic closure sewn inside glove for safety and comfort
- Color coded hems for easy size identification



Mfr. Model #	Size	BOR Part #
WA2434A	Large	2236549
WA2435A	X-Large	2236550

Solo Safety Glasses

With vented temples for added comfort.

- Lightweight and economical
- Vented temples reduce fogging
- Scratch resistant polycarbonate
- ANSI, CSA, and CE



PYRAMEX

Mfr. Model #	Description	BOR Part #
S510S	Clear Lens, Weight: 46 gm	1249413
S510SJ	Clear Jumbo Lens, Weight: 46 gm	1249409
S520S	Gray Lens, Weight: 46 gm	1249408

Fiber Optic Solutions

Tools and Safety

Uvex Genesis® Safety Glasses

Engineered to deliver on the best all-day comfort, protection and style.

- 3/4" frame with comfort brow for all day wear and performance
- Polycarbonate lens, premium HydroShield® Anti-Fog coating
- Ratchet, adjustable temples and flexible nose "fingers" using MMT-Multi Material Technology®
- Choice of lens tints
- Economical lens replacement system and lifetime frame guarantee
- Made in the USA



Honeywell

Mfr. Model #	Frame Color	Material	Lens Coating	Lens Color	BOR Part #
S3200X	Black	Polycarbonate	Uvextreme® Anti-Fog	Clear	1720764
S3201X	Black	Polycarbonate	Anti-Fog	Espresso	1720765
S3202	Black	Polycarbonate	Ultra-Dura Anti-Scratch	Amber	1720769

G-Tek® GP™ Economy Gloves

- Seamless cotton/polyester knit shell is comfortable and flexible
- Latex crinkle coatings feature creases or wrinkles on the surface of the coating that are designed to channel fluids away allowing better contact on dry or wet surfaces — a natural rubber that is flexible, tough and durable due to its high degree of resistance to snagging, puncture, and abrasion
- Knit Wrist helps prevent dirt and debris from entering the glove
- Ergonomic shaped curved finger pattern
- Blue coating
- Gray Liner
- 10 Gauge
- Economy grade



Mfr. Model #	EN 388	Size	BOR Part #
39-1310/L	2142	Large	3380382
39-1310/XL	2142	X-Large	3380383

Credo

The Credo is our personal call to action. It directs how each of us, as employee-owners, show up each day. It's not just what we do, it's how we do it — building the company we believe in.



I work with
purpose.



I turn challenges
into **results.**



I make a
difference.



I am an
employee-owner.



Utility Communications Partners

3M	EXFO	Semtech/Sierra Wireless
AccelTex Solutions - A Hubbell Brand	GAI-Tronics - A Hubbell brand	Softing
AFL	Great Lakes Case and Cabinet	Specified Technologies
Altronix	Hubbel Power	Superior Essex
American Polymer Company	Ideal Industries	SureCall
American Polywater	Intellinet Network Solutions	Telecrafter Products
APC	i-PRO Americas	Teledyne FLIR
Bekaert	ITW Linx	Tempo Communications
Belden	Jameson	Tofino - A Belden brand
Blackburn Manufacturing	L-Com	Transtector Systems
Blue Diamond	Leviton	Trident Solutions
Bogen	Lynn Networks	Tycon Systems
Brady	MacLean Senior Industries	Ubiquiti Networks
Brother	MaxCell	United Poly
Burndy - A Hubbell brand	Moxa	Vanco
Cabletec	Neptco	Vitek
Cablofil Legrand	Newmar Power	Vivotek
Cal Am	Nfina	WBT
Cambium	NSI	Will-Burt Company
Carol Cable	nVent CADDY	Winnie Industries
Carson Industries	nVent Hoffman	Winsted
Carsonite Composites	OCC	Wiremold
CDVI	Oldcastle Infrastructure	ZeroConnect
Channell	Panduit	
Charles Industries	Patton Electronics	
Clearfield	Pelsue	
CommScope	Pencell Plastics - A Hubbell brand	
Condux	PLP/Preformed Line Products	
Corning	PolyPhaser	
Creek Plastics	Positron	
CyberPower	PPC - A Belden brand	
Dialight	Precision Group	
Dottie	ProLabs	
Duracell	Prysmian	
Dura-Line	Quazite - A Hubbell brand	
Eaton B-Line	Quiktron	
Eaton Cooper Wheelock	Rack-A-Tiers	
Eaton Powerware	RF Industries	
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Fiber Optic Solutions

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