



Materials Catalog 2022



→ The solutions you need,
exactly when you need them

Version
Digital 1.1



Materials Catalog 2022



→ The solutions you need,
exactly when you need them

From cell site materials and equipment to logistics and kitting, NWS has the expertise and the inventory to fulfill all your wireless network construction needs quickly and accurately. We provide a wide array of mission-critical support for the wireless telecommunications industry. Our experience, partnerships and warehousing facilities enable us to act swiftly on your behalf, often delivering the materials you need the very next day. NWS is the proven partner you've been looking for to keep your projects on schedule and maximize your bottom line.



Materials

Site materials in-stock,
ready to ship



Warehousing

Logistics, kitting and
inventory management



Fiber Optics

Complete solutions from
design to installation



Services

Strategic support from
experienced professionals



www.nwswireless.com

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Fiber Patch Cables Custom Product

- + For part number, please use Fiber Patch Cable Part Number Configurator
- + For fiber patch configurations not listed below, please contact NWS for availability

Part Number Configurator – Fiber Patch Cables

FP	FIBER TYPE	CABLE TYPE	CONN A	POLISH A	CONN B TYPE	POLISH B	LENGTH
	SM = OS2 SMBY = OS2 - Bend Insensitive Yellow Jacket SMBB = OS2 - Bend Insensitive Dark Blue Jacket MMI = OM1 MMIB = OM1 - Bend Insensitive MM2 = OM2 MM2B = OM2 - Bend Insensitive MM3 = OM3 MM3B = OM3 - Bend Insensitive MM4 = OM4	1 = 2 Fiber Zip OFNR - 3mm 2 = 2 Fiber Zip OFNP - 3mm 3 = 2 Fiber Zip OFNR - 2mm 4 = 2 Fiber Zip OFNP - 2mm 5 = 2 Fiber Zip OFNR - 1.8mm 6 = 2 Fiber Zip OFNP - 1.8mm 7 = 2 Fiber Zip 1.6mm OFNR 8 = 2 Fiber Zip 1.6mm OFNP 9 = 2 Fiber Round 3mm OFNR 10 = 2 Fiber Round 3mm OFNP 11 = 2 Fiber 1.2mm OFNR 12 = 1 Fiber OFNR - 3mm 13 = 1 Fiber OFNP - 3mm 14 = 1 Fiber OFNR - 2mm 15 = 1 Fiber OFNP - 2mm 16 = 1 Fiber 1.6mm OFNR 17 = 1 Fiber 1.6mm OFNP 18 = 1 Fiber 1.2mm OFNR 19 = 1 Fiber Tight Buffer 900um 20 = 1 Fiber Coated 250umP	LM = LC Metal LC = LC Plastic LU = LC Uniboot LF = LC Flexible LS = LC Short LM = LC Mini SC = SC SF = SC Flexible SS = SC Short ST = ST FC = FC MU = MU	A = APC U = UPC P = PC (multimode)	LM = LC Metal LC = LC Plastic LU = LC Uniboot LF = LC Flexible LS = LC Short LM = LC Mini SC = SC SF = SC Flexible SS = SC Short ST = ST FC = FC MU = MU	A = APC U = UPC P = PC (multimode)	# in meters



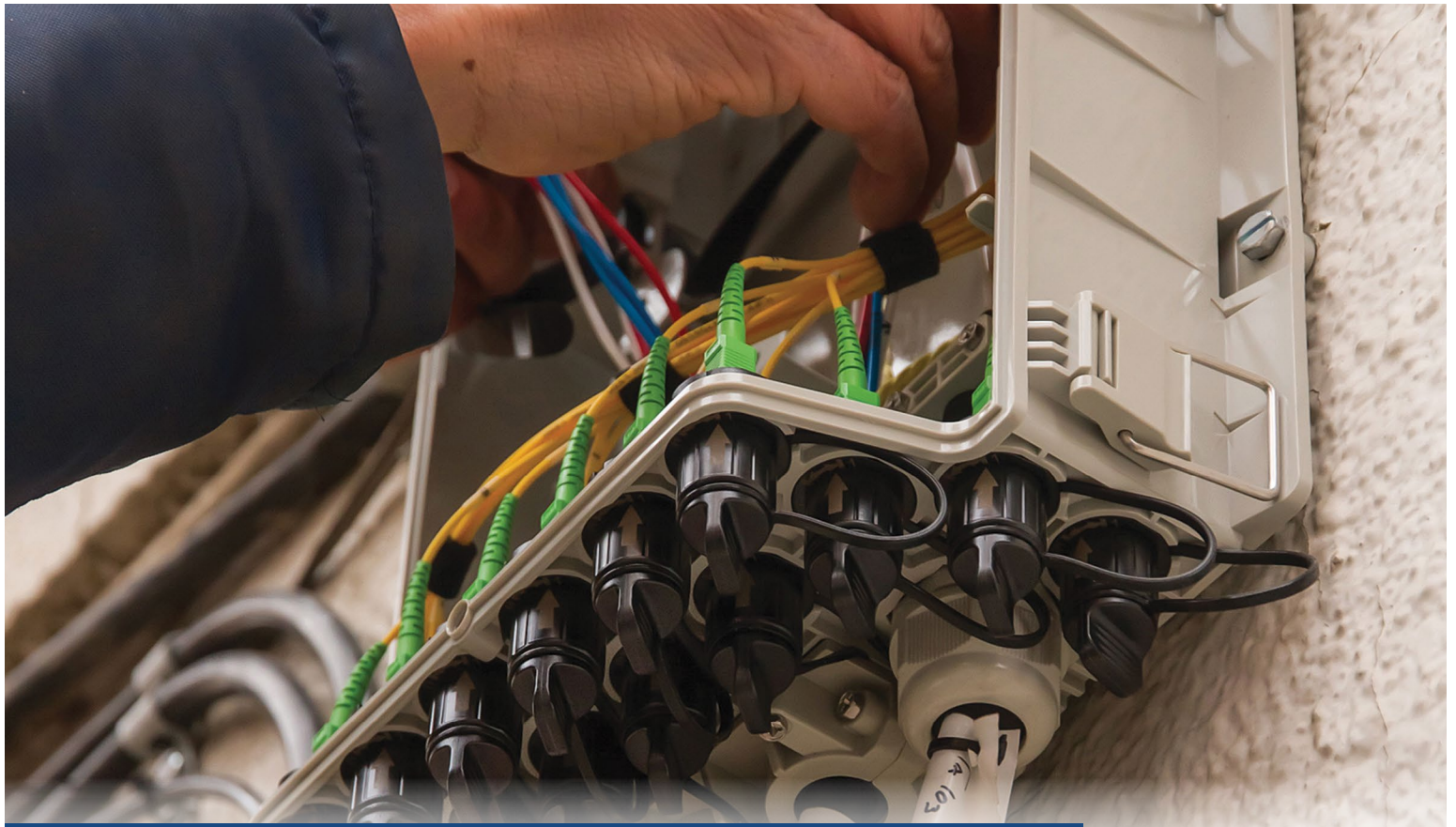
Fiber Assemblies Custom Product

- + For part number, please use Fiber Assembly Part Number Configurator
- + For fiber assembly configurations not listed below, please contact NWS for availability

Part Number Configurator - Fiber Assemblies

FC	FIBER TYPE	FIBER COUNT	CABLE TYPE	BREAKOUT LENGTH	BREAKOUT OD
	SM = OS2 SMB = OS2 - Bend Insensitive SMBB = OS2 - Bend Insensitive Dark Blue Jacket MMI = OM1 MM2 = OM2 MM2B = OM2 - Bend Insensitive MM3 = OM3 MM3B = OM3 - Bend Insensitive MM4 = OM4	2 = 2 Fibers 4 = 4 Fibers 6 = 6 Fibers 8 = 8 Fibers 12 = 12 Fibers 18 = 18 Fibers 24 = 24 Fibers 36 = 36 Fibers 48 = 48 Fibers 72 = 72 Fibers 96 = 96 Fibers 144 = 144 Fibers	D = Distribution B = Breakout L = Loose Tube R = Ribbon MB = Mini Breakout UD = Unjacketed Distribution UR = Unjacketed Ribbon	Numerical Value in Meters Leave blank if N/A	A = 900um B = 2mm C = 3mm Blank if N/A

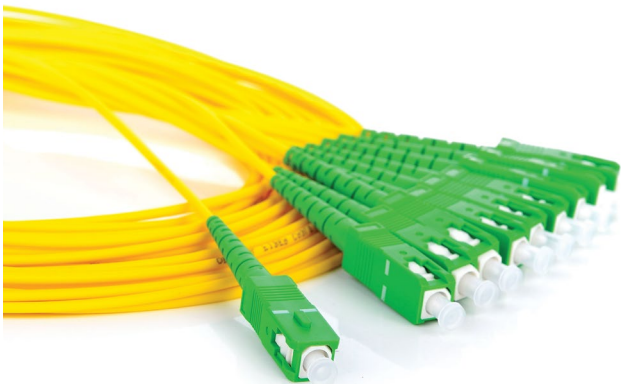
FIRE RATING	ARMOR TYPE	CONN A	POLISH A	CONN B TYPE	POLISH B	PULLING EYE	LENGTH
NP = OFNP NR = OFNR O = Outdoor INP = Indoor/Outdoor OFNP INR = Indoor/Outdoor OFNR Leave Blank if N/A	B = BX L = Light Blank if N/A	LC = LC SC = SC ST = ST FC = FC M12F = 12F MPO Female M12M = 12F MPO Male M24F = 24F MPO Female M24M = 24F MPO Male	A = APC U = UPC P = PC (multimode)	LC = LC SC = SC ST = ST FC = FC M12F = 12F MPO Female M12M = 12F MPO Male M24F = 24F MPO Female M24M = 24F MPO Male	A = APC U = UPC P = PC (multimode)	1 = 1 2 = 2 1S = Stag w/ 1 2S = Stag w/2 Blank if N/A	Numerical Value in Meters



Four Solutions. Infinite Possibilities. NWS Connect

The Fiber Solutions You Need

The networks of today and the future require reliable, high speed connectivity to handle the growing demand for data at our fingertips and surrounding environment. NWS Connect is a portfolio of solutions to meet this need.



HybridConnect

Single cable solutions combining fiber and copper wire

PowerConnect

Scalable power cable designs to accommodate multiple circuits

FiberConnect

High fiber density solutions in a small cable OD

Protect

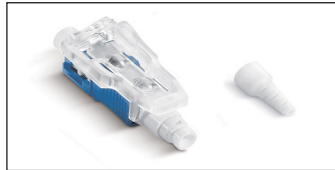
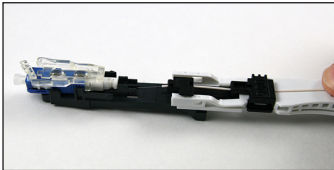
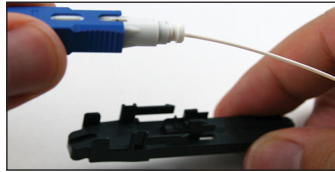
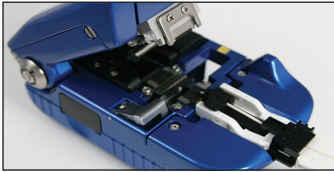
powered by **Raycap**

Distribution enclosures utilizing Raycap Strikesorb solutions to provide protection against the risk of damage due to lightning

Fiber to the Home

NWS provides innovative products to meet the unique and evolving requirements of FTTH networks. Fiber to the Home products include:

- + XP Fit Plus
- + Mini Wall Box
- + PLC Splitters
- + CTJ-Box
- + IP Series
- + IP PLC
- + WDM Couplers
- + Attenuators
- + Test Equipment



The XP Fit Plus is a pre-polished, pre-assembled connector compatible with the standard SC connector that uses index matching gel. Instead of epoxy, an internal mechanical grip, gently but effectively holds the fiber in place and can be installed in under 2 minutes. Without polishing or adhesives the XP Fit Plus makes on site installations quick and easy.

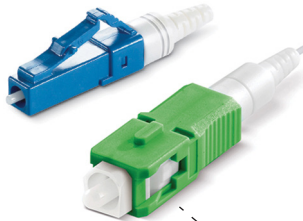
XP Tool Kit

The XP Fit Tool Kit contains everything needed for installation of the SC and LC XP Fit Plus connectors.



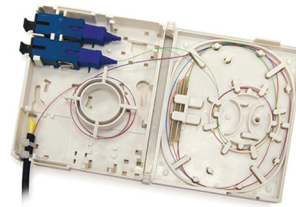
XP Fit Plus

No epoxy, no polishing.
Quick assembly in under 2 minutes



Mini Wall Box

An effective low cost FTTH Connectivity Solution



Single Dwelling Unit



The New Mini Wall Box is designed for FTTH applications, allowing for easy and multiple position installations.



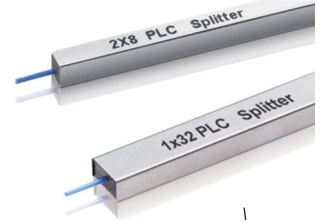
Simple Installation designed for indoor environments, requiring fiber optic connectivity. The Mini Wall Box is easy to install and has multiple cable entry positions. Direct termination or pigtail splicing for 2-4 fibers.



Controls Bend Radius to minimize Insertion Loss When used in conjunction with the SENKO XP Fit Plus field installable connectors the solution yields exceptionally low insertion loss especially suited to singlemode applications. Splice tray can be removed which makes the box more compact.

PLC Splitters

Highest quality and performance Splitters



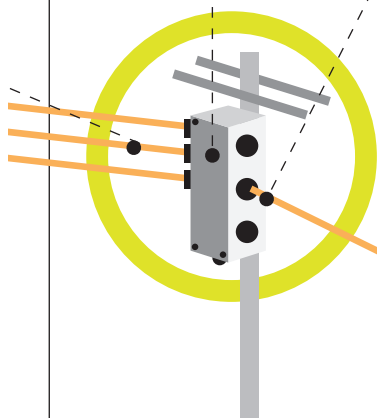
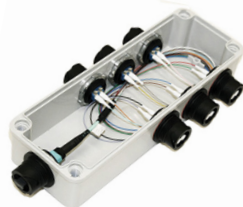
PLC Splitter Modules are manufactured with Plasma Chemical Vapor Deposition (P-CVD) technology, and its patented fabrication process, for providing stable optical specifications. The modules' silica on silica waveguide and optical fiber array are tested to Telcordia GR-1209 and GR-1221.



PLC Splitter Chips feature stable optical character, and are suitable for various applications including Splitters and Combiners.

CTJ-Box

Junction Box



The SENKO Junction Box® has been developed to meet customer demands to fulfill the ongoing requirements and problems occurring in FTTH installations.



Weatherproof
Ideal choice for any harsh environmental applications



Simple Connection
Simple connection method to RRU using IP-68 connectors



Maximize Your Saving
Reduces installation time and costs



Maximum Junction
Maximum 6RF junction through 1 cable

IP-Series

Weatherproof Connectors



IP-LC XP
field installable connector



IP-SC



IP-SC XP
field installable connector



IP-LC



in-line adaptor



bulkhead adaptor



New Line of IP68 Connectors Exceed ODVA Requirements

The SENKO IP-LC Connector is designed to exceed the requirements of ODVA, the connectors meet IP68 environmental sealing ratings and are the ideal choice for a lost cost/easy to use solution in Industrial, Fiber to the Antenna (FTTa), or any other harsh environmental



Simple Bayonet Locking System

The IP-LC Connector is designed according to the IEC60603-7 interface standard, which allows mating to other similar mechanical locking systems.



Low Insertion Loss

Incorporating the SENKO LC connector yields exceptionally low insertion loss for Single-mode applications and provides connector color coding options in Multimode applications for differentiation of OM3 or OM4 constructions.

IP-PLC

IP-68 rated Break Out Kit

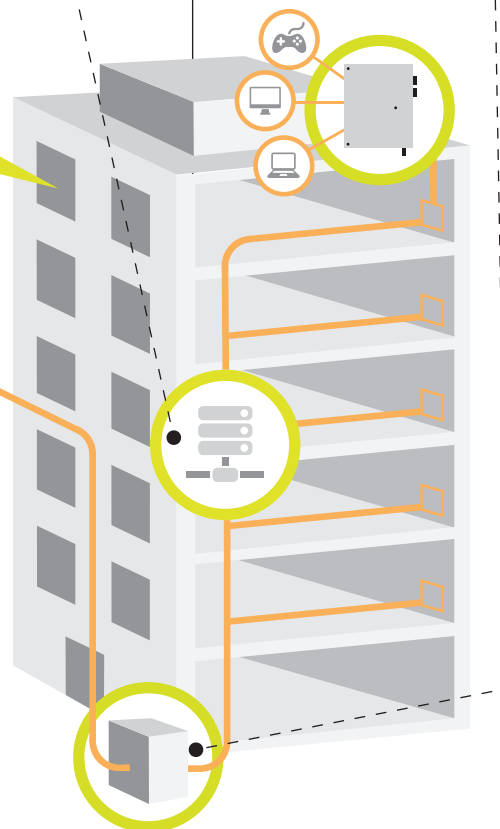


CTJ-Box

Patch/Splice Closure



Multi Dwelling Unit



For custom FTTH solutions contact your NWS Account Manager or email us at sales@nswireless.com



Field Installable Fiber Connectors

- + No epoxy required
- + Pre-polished

Part Number	Description	Qty.
318-091-427-12	XPFit Plus SC Connector APC 250/900um	1
318-191-627-12	XPFit Plus SC Connector SM PC 250/900um	1
318-391-927-12	XPFit Plus SC Connector MM 62.5/125 250/900um	1
318-491-527-12	XPFit Plus SC Connector MM 50/125 10G OM3 250/900um	1
352-191-2-12	XPFit Plus ST Connector SM PC 250/900um	1
352-391-2-12	XPFit Plus ST Connector MM 62.5/125 250/900um	1
352-491-2-12	XPFit Plus ST Connector MM 50/125 10G OM3 250/900um	1
951-091-311-12	XPFit Plus LC Connector APC 250/900um	1
951-191-111-12	XPFit Plus LC Connector SM PC 250/900um	1
951-391-211-12	XPFit Plus LC Connector MM 62.5/125 250/900um	1
951-491-511-12	XPFit Plus LC Connector MM 50/125 10G OM3 250/900um	1



Fiber Tool Kit

Part Number	Description	Qty.
XPFI-S-F	XPFit Plus Field Installation Kit w/ Flat Cleaver	1



Light Source, Power Meter & Visible Fault Locator

- + Test Equipment

Part Number	Description	Qty.
AFT-G-MF-LS	Smart Source Mainframe	1
AFT-G-LS-S-1550	Smart Source SM SFP Module 1550	1
AFT-G-LS-S-1310	Smart Source SM SFP Module 1310	1
AFT-G-LS-M-1300	Smart Source MM SFP Module 1300	1
AFT-G-LS-M-850	Smart Source MM SFP Module 850 VCSEL	1
AFT-G-FM-3DG-S	Smart Meter SM 1310/1550nm 3 digits	1
AFT-G-FM-2DG-M	Smart Meter MM 850/1300nm 2 digits	1
AFT-G-CAM	2.5mm to 1.25mm Adapter	1
AFT-G-FC	Smart Checker SM 1310/1550nm 2 digits	1
AFT-G-CAC	2.5mm to 1.25mm Adapter	1
AFT-G-FC-MPO	Smart Checker MPO 12	1



Smart Probe

Part Number	Description	Qty.
SCK-VM2000-01	Smart Probe II - Wi-Fi	1



Field Installable IP Fiber Connectors

Part Number	Description	Qty.
IP-LCXP-CSM	IP LC Connector, Singlemode	1
IP-LCXP-CMM	IP LC Connector, Multimode	1
IP-SCXP-CSM	IP SC Connector, Singlemode	1
IP-SCXP-CMM	IP SC Connector, Multimode	1
IP-SCXP-CAPC	IP SC Connector, APC	1



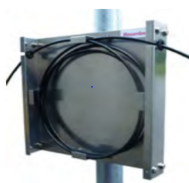
Fiber Cleaners

Part Number	Description	Qty.
SCK-CC-100	Smart Cleaner Cassette	1
SCK-SS-125	Smart Cleaner for LC, MU	1
SCK-SS-250	Smart Cleaner for SC, FC, ST, E2000	1
SCK-SS-MPO	Smart Cleaner for MPO	1
SCK-PT-MPO-01	MPO Adhesive Cleaning Pad for Patch Cord	1
SCK-SS-125R	Replacement Kit for SCK-SS-125	1
SCK-SS-250R	Replacement Kit for SCK-SS-250	1



Fiber Distribution Enclosures

Part Number	Description	Qty.
F-2132-FIBER19	Fiber Distribution Enclosure for 18 Fiber Pairs, 14.3"x12.25"x6.13"	1
F-2132-FIBER36	Fiber Distribution Enclosure for 36 Fiber Pairs, 18"x16"x8"	1
F-2132-FIBER54	Fiber Distribution Enclosure for 54 Fiber Pairs, 24"x24"x8"	1



Excess Fiber Storage

+ Aluminum construction on all boxes

Part Number	Description	Qty.
FB-7J-1463	E.F.S.B. for Tower Top, Hinged Cover, 14"x6.25"x3"	1
FB-7J-1293	E.F.S.B. for Tower Top, Screw-On Cover, 12"x9.5"x3"	1
FB-21-ABOX-5	E.F.S.B. w/ Continuous Gasketed Cover & Washers, 17"x17"x6.5"	1
FB-19-ABOX-4	E.F.S.B., 17"x17"x6.5"	1
FB-15-ABOX	E.F.S.B., 18"x18"x3"	1

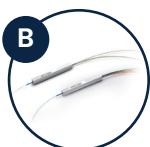
PLC Splitters

+ Please use configurators below for part number

+ For any questions or options not found below, please contact your NWS Account Manager



1xN PLC Splitter



2xN PLC Splitter



Pre-Connectorized
PLC Splitter



900 μm Type
PLC Splitter



Module 2mm Type
PLC Splitter

A

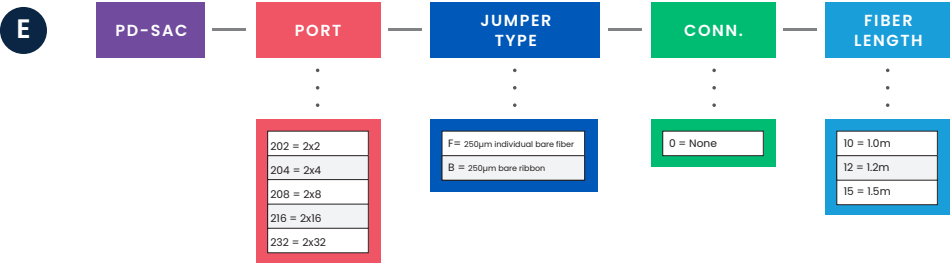
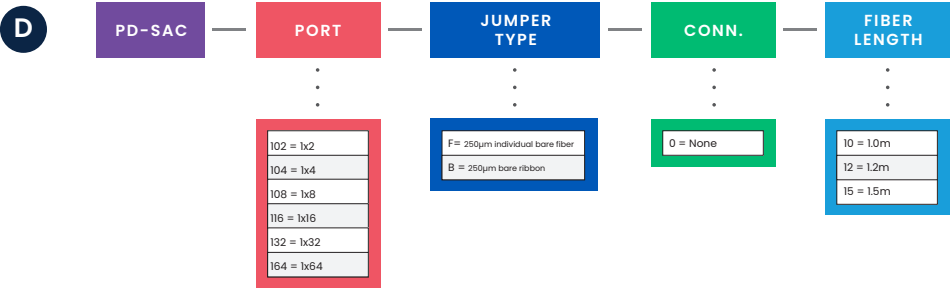
PD-SAC	PORT	JUMPER TYPE	CONN.	FIBER LENGTH
	...	...	...	...
	102 = 1x2	F = 250μm individual bare fiber	0 = None	10 = 1.0m
	104 = 1x4	B = 250μm bare ribbon		12 = 1.2m
	108 = 1x8			15 = 1.5m
	116 = 1x16			
	132 = 1x32			
	164 = 1x64			

B

PD-SAC	PORT	JUMPER TYPE	CONN.	FIBER LENGTH
	...	...	...	...
	202 = 2x2	F = 250μm individual bare fiber	0 = None	10 = 1.0m
	204 = 2x4	B = 250μm bare ribbon		12 = 1.2m
	208 = 2x8			15 = 1.5m
	216 = 2x16			
	232 = 2x32			

C

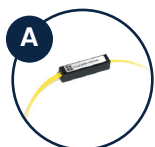
PD-BLS	PORT	JUMPER TYPE	CONN.	FIBER LENGTH
	...	...	...	...
	102 = 1x2	9 = 900μm loose tube	0 = None	10 = 1.0m
	104 = 1x4		1 = SC/UPC	15 = 1.5m
	108 = 1x8		2 = SC/APC	
	116 = 1x16		3 = FC/UPC	
	132 = 1x32		4 = FC/APC	
	164 = 1x64		5 = LC/UPC	
	202 = 2x2		6 = LC/APC	
	204 = 2x4		7 = MU/UPC	
	208 = 2x8			
	216 = 2x16			
	232 = 2x32			



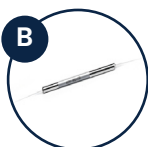
WDM

+ Please use configurators below for part number

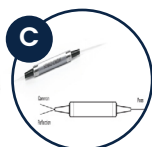
+ For any questions or options not found below, please contact your NWS Account Manager



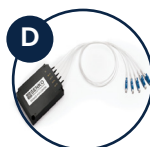
**Fused WDM
1310/1550**



**Fused WDM
980/1550**



**CWDM
Single Device**



**CWDM
2ch/4ch/8ch/16ch
Module**



**CWDM
2ch/4ch/8ch+1310ch
Module**



**Mini Low Loss
4ch/8ch CWDM**



**DWDM
100g/200g 4ch/8ch
Module**



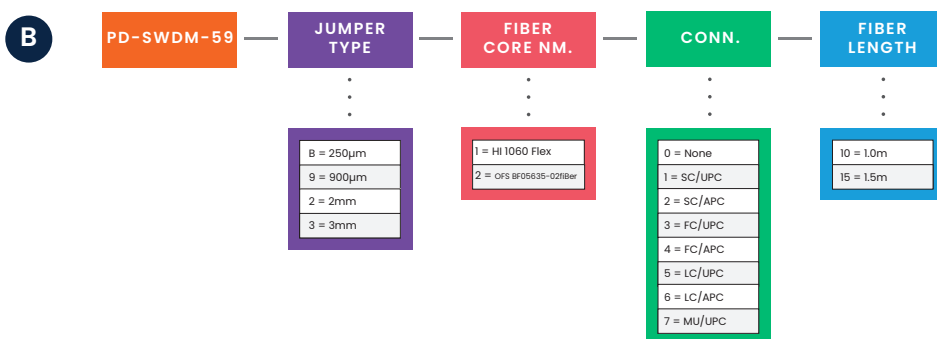
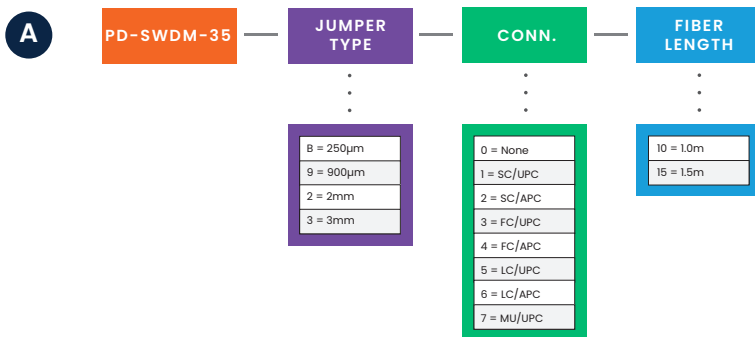
**Pre-Connectorized
PLC Splitter**

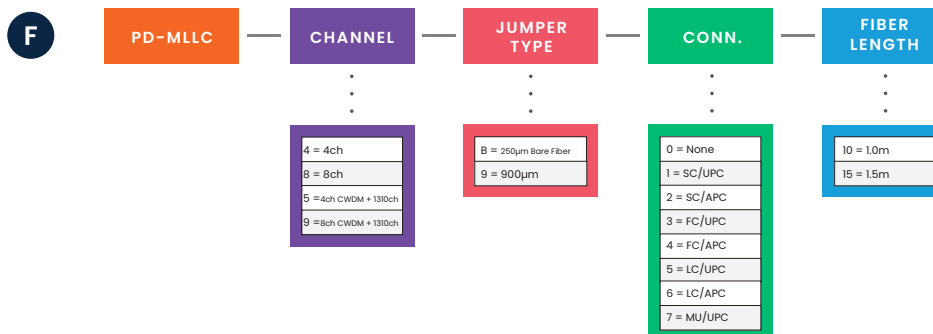
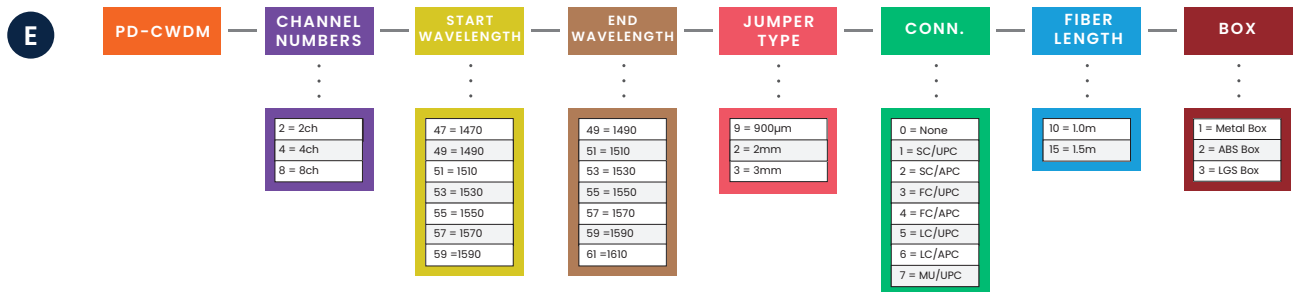
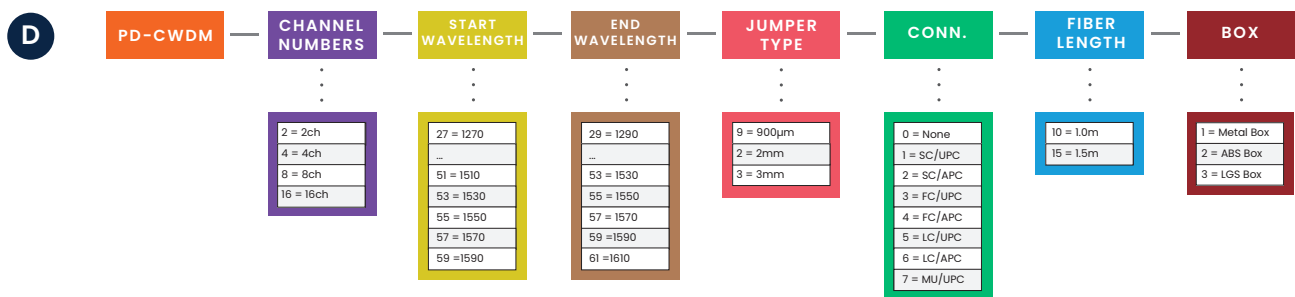
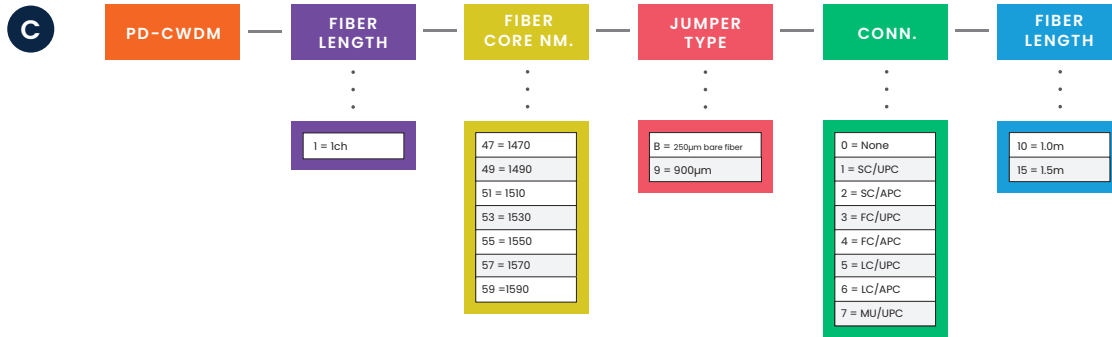


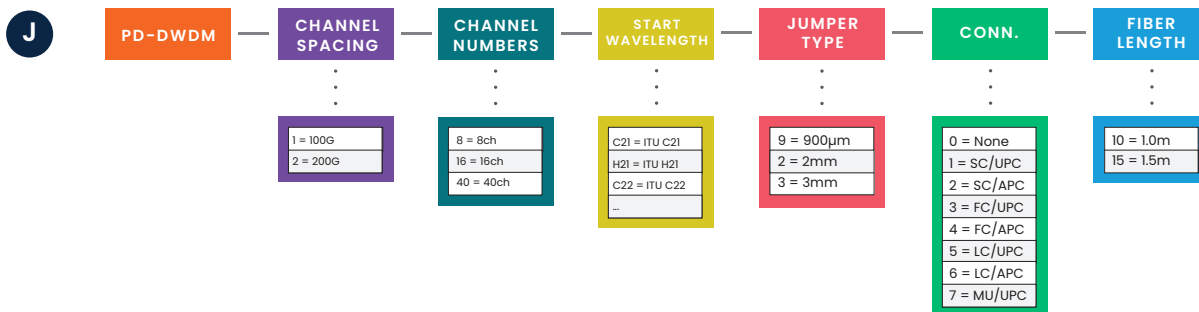
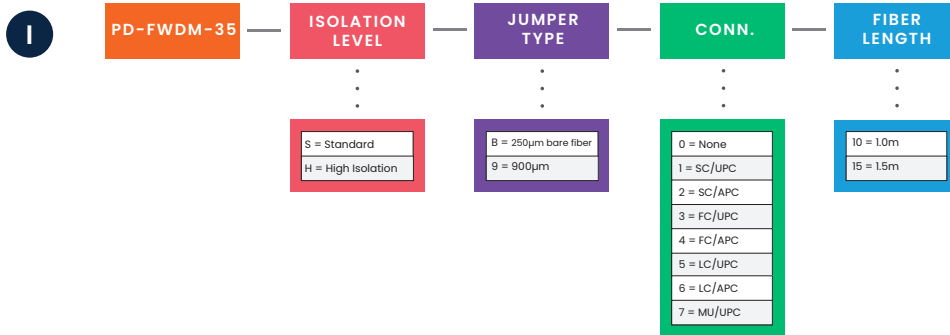
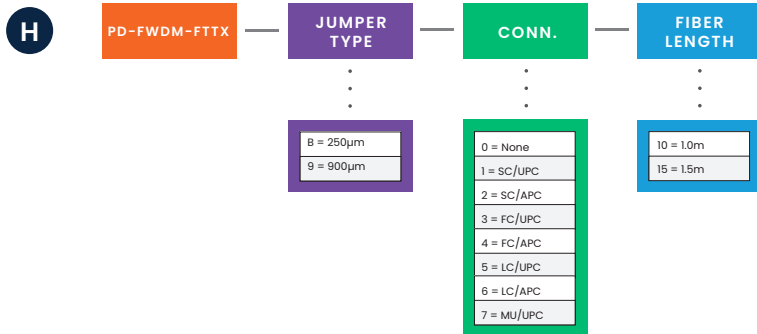
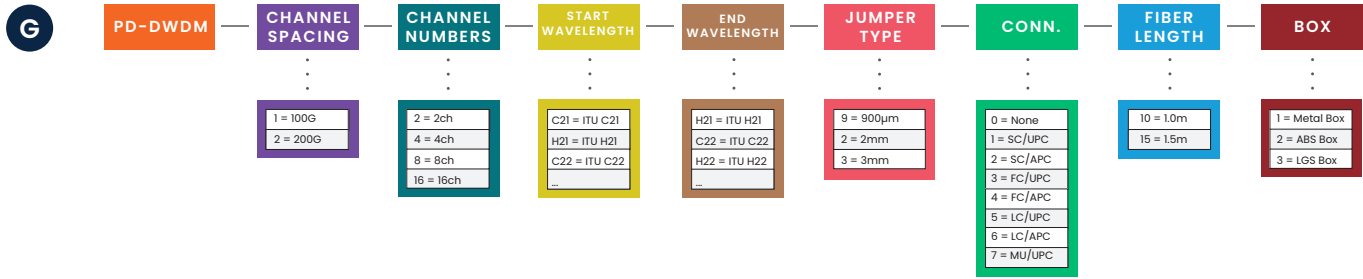
**FTTX FWDM
1310~1490/1550**



**Filter Based FWDM
1310/1550**







Cable Attachment

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Stand-Off Adapters

- + Available in stainless steel and galvanized
- + Compatible with 1/2" banding
- + 3/8" tapped holes and 3/4" thru holes
- + Hose clamps are sold separately - see below

Part Number	Description	Qty.
SO-38-SS	3/8" Tapped Hole	10
SO-U-SS	3/4" Thru Hole (Insert Included)	10
SO-34-SS	3/4" Thru Hole	10
SO-38-G	3/8" Tapped Hole - Galvanized	10
SO-U-G	3/4" Thru Hole (Insert Included) - Galvanized	10
SO-34-G	3/4" Thru Hole - Galvanized	10



Hose Clamps

- + All components manufactured from 304 stainless steel
- + Other sizes available

Part Number	Description	Qty.
HC-12	1"-2" OD Members	10
HC-23	2"-3" OD Members	10
HC-35	3"-5" OD Members	10
HC-56	5"-7" OD Members	10



Angle Adapters

- + Available in stainless steel and galvanized
- + 1" jaw opening
- + 3/8" tapped holes and 3/4" thru holes

Part Number	Description	Qty.
AA-38-SS	3/8" Tapped Hole	10
AA-U-SS	3/4" Thru Hole (Insert Included)	10
AA-34-SS	3/4" Thru Hole	10
AA-38-G	3/8" Tapped Hole - Galvanized	10
AA-U-G	3/4" Thru Hole (Insert Included) - Galvanized	10
AA-34-G	3/4" Thru Hole - Galvanized	10



Three-Way Stand-Off Adapters

- + Can be used with 3/8" mounting hardware, with 1/2" banding or hose clamps
- + Manufactured from 304 stainless steel

Part Number	Description	Qty.
SO3-34-SS	Three Way Stand-off	10



Adapter Hardware

Part Number	Description	Qty.
Insert-SS	3/8" Tapped Universal Insert Kit for Angle Adapters and Stand-Offs	1



Stainless Steel Banding

+ Manufactured from 304 stainless steel

Part Number	Description	Qty.
BND-12-100-SS	1/2" x 100' Banding	1
BND-34-100-SS	3/4" x 100' Banding	1



Banding Buckles

+ Secured with a tooth and ear design
+ manufactured from 304 stainless steel

Part Number	Description	Qty.
BKL-12-SS	1/2" Banding Buckle	50
BKL-34-SS	3/4" Banding Buckle	50



Clamp Heads

+ Compatible with hose clamps and 1/2" banding + 1" jaw opening
+ Manufactured from 304 stainless steel

Part Number	Description	Qty.
CH-12-SS	Clamp Head	10



Snap-In Hangers

+ Manufactured from 304 stainless steel + Internal support fingers absorb tower vibration
+ Special installation tool not required

Part Number	Description	Qty.
SH-12	Snap-In Hanger for 1/2" Coaxial Cable	10
SH-78	Snap-In Hanger for 7/8" Coaxial Cable	10
SH-114	Snap-In Hanger for 1-1/4" Coaxial Cable	10
SH-158	Snap-In Hanger for 1-5/8" Coaxial Cable	10
SH-214	Snap-In Hanger for 2-1/4" Coaxial Cable	10



Stackable Snap-In Hangers

- + Manufactured from stainless steel
- + Can be stacked 3 high

Part Number	Description	Qty.
STACK-SH-12	Stackable Snap-In Hanger for 1/2" Coaxial Cable	10
STACK-SH-78	Stackable Snap-In Hanger for 7/8" Coaxial Cable	10
STACK-SH-114	Stackable Snap-In Hanger for 1-1/4" Coaxial Cable	10
STACK-SH-158	Stackable Snap-In Hanger for 1-5/8" Coaxial Cable	10
STACK-SIC-12	Stackable Speedy Snap-In Clamp for 1/2" Cables	10
STACK-SIC-78	Stackable Speedy Snap-In Clamp for 7/8" Cables	10
STACK-SIC-114	Stackable Speedy Snap-In Clamp for 1-1/4" Cables	10
STACK-SIC-158	Stackable Speedy Snap-In Clamp for 1-5/8" Cables	10



Coax Blocks

- + Weather resistant polypropylene
- + Exterior alignment ridges
- + Interior gripping teeth

Part Number	Description	Qty.
CB2-12	Block for 1/2" Coaxial Cable, Double Run	10
CB2-78	Block for 7/8" Coaxial Cable, Double Run	10
CB2-114	Block for 1-1/4" Coaxial Cable, Double Run	10
CB2-158	Block for 1-5/8" Coaxial Cable, Double Run	10
CB2-5-8MM	Block for 5-8mm Cable, Double Run	10
CB2-8-12MM	Block for 8-12mm Cable, Double Run	10
CB2-12-16MM	Block for 12-16mm Cable, Double Run	10



Threaded Rod Hardware

- + Kits include 10 threaded rods, 30 nuts, 30 lock washers and 20 flat washers

Part Number	Description	Qty.
TR-384-SS	Stainless Steel, 3/8" x 4" Rod	1
TR-386-SS	Stainless Steel, 3/8" x 6" Rod	1
TR-388-SS	Stainless Steel, 3/8" x 8" Rod	1
TR-3810-SS	Stainless Steel, 3/8" x 10" Rod	1
TR-3812-SS	Stainless Steel, 3/8" x 12" Rod	1



Butterfly Hangers

- + Manufactured from 304 stainless steel
- + 3/8" mounting hardware included
- + Compatible with corrugated, smooth wall coax and elliptical waveguide

Part Number	Description	Qty.
BH-3812	3/8" to 1/2" Coaxial Cable	10
BH-78	7/8" Coaxial Cable	10
BH-114	1-1/4" Coaxial Cable	10
BH-158	1-5/8" Coaxial Cable	10
BH-214	2-1/4" Coaxial Cable	10



Cushion Hangers

- + Elliptical waveguide sizes available
- + Kit includes hose clamp and clamp head
- + Supports multiple runs of cable

Part Number	Description	Qty.
CHK-1-38	1 Hole for 3/8" Coaxial Cable	5
CHK-3-38	3 Holes for 3/8" Coaxial Cable	5
CHK-9-38	9 Holes for 3/8" Coaxial Cable	5
CHK-1-12	1 Hole for 1/2" Coaxial Cable	5
CHK-2-12	2 Holes for 1/2" Coaxial Cable	5
CHK-3-12	3 Holes for 1/2" Coaxial Cable	5
CHK-4-12	4 Holes for 1/2" Coaxial Cable	5
CHK-5-12	5 Holes for 1/2" Coaxial Cable	5
CHK-1-78	1 Hole for 7/8" Coaxial Cable	5
CHK-2-78	2 Holes for 7/8" Coaxial Cable	5
CHK-3-78	3 Holes for 7/8" Coaxial Cable	5
CHK-4-78	4 Holes for 7/8" Coaxial Cable	5
CHK-1-114	1 Hole for 1-1/4" Coaxial Cable	5
CHK-1-158	1 Hole for 1-5/8" Coaxial Cable	5
CHK-1-214	1 Hole for 2-1/4" Coaxial Cable	5



Hanger Inserts

- + Manufactured from UV resistant EPDM rubber
- + Custom hole configurations available upon request
- + Compatible with standard coax support products

Part Number	Description - Standard	Qty.
CG-1-38i-12	Grommet for (1) 3/8" Cable, Fits 1/2" Hangers	10
CG-1-20-78	Grommet for (1) 20mm Cable, Fits 7/8" Hangers	10
CG-1-58i-114	Grommet for (1) 5/8" Cable, Fits 1-1/4" Hangers	10
CG-1-17-114	Grommet for (1) 17mm Cable, Fits 1-1/4" Hangers	10
CG-1-24-114	Grommet for (1) 24mm Cable, Fits 1-1/4" Hangers	10
CG-1-30-158	Grommet for (1) 30mm Cable, Fits 1-5/8" Hangers	10
CG-1-33-158	Grommet for (1) 33mm Cable, Fits 1-5/8" Hangers	10
CG-1-36-158	Grommet for (1) 36mm Cable, Fits 1-5/8" Hangers	10
CG-1-40-158	Grommet for (1) 40mm Cable, Fits 1-5/8" Hangers	10
Part Number	Description - Multi-Hole	Qty.
CG-1-11-2-7-78	Grommet for (1) 11mm & (2) 7mm Cables, Fits 7/8" Hangers	10
CG-2-6-2-1215-114	Grommet for (2) 6mm & (2) 12-15mm Cables, Fits 1-1/4" Hangers	10
CG-2-7-2-10-114	Grommet for (2) 7mm & (2) 10mm Cables, Fits 1-1/4" Hangers	10
CG-2-7-2-13-114	Grommet for (2) 7mm & (2) 13mm Cables, Fits 1-1/4" Hangers	10
CG-1-7-2-11-158	Grommet for (1) 7mm & (2) 11mm Cables, Fits 1-5/8" Hangers	10
CG-1-7-1-2335-158	Grommet for (1) 7mm & (1) 23-35mm Cables, Fits 1-5/8" Hangers	10
CG-4-7-3-11-158	Grommet for (4) 7mm & (3) 11mm Cables, Fits 1-5/8" Hangers	10
CG-4-7-4-11-158	Grommet for (4) 7mm & (4) 11mm Cables, Fits 1-5/8" Hangers	10
CG-1-10-2-20-158	Grommet for (1) 10mm & (2) 20mm Cables, Fits 1-5/8" Hangers	10
CG-1-10-1-24-158	Grommet for (1) 10mm & (1) 24mm Cables, Fits 1-5/8" Hangers	10
CG-1-11-2-19-158	Grommet for (1) 11mm & (2) 19mm Cables, Fits 1-5/8" Hangers	10
CG-7-11-158	Grommet for (7) 11mm Cables, Fits 1-5/8" Hangers	10
CG-4-16-158	Grommet for (4) 16mm Cables, Fits 1-5/8" Hangers	10
CG-2-20-158	Grommet for (2) 20mm Cables, Fits 1-5/8" Hangers	10
Part Number	Description - Universal	Qty.
CG-1-410-12	Grommet for (1) 4-10mm Cable, Fits 1/2" Hangers	10
CG-1-613-78	Grommet for (1) 6-13mm Cable, Fits 7/8" Hangers	10
CG-1-1318-78	Grommet for (1) 13-18mm Cable, Fits 7/8" Hangers	10
CG-1-1020-114	Grommet for (1) 10-20mm Cable, Fits 1-1/4" Hangers	10
CG-3-613-158	Grommet for (3) 6-13mm Cables, Fits 1-5/8" Hangers	10
CG-1-1722-158	Grommet for (1) 17-22mm Cable, Fits 1-5/8" Hangers	10
CG-1-2231-158	Grommet for (1) 22-31mm Cable, Fits 1-5/8" Hangers	10
CG-1-3040-214	Grommet for (1) 30-40mm Cable, Fits 2-1/4" Hangers	10



Cable Entry

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	Entry Panels.....	20
	Entry Boots and Cushions.....	20



Cushion Plugs

+ Manufactured from UV resistant EPDM rubber

Part Number	Description	Qty.
EBCP-38	3/8" Entry Boot Cushion Plug	1
EBCP-12	1/2" Entry Boot Cushion Plug	1
EBCP-78	7/8" Entry Boot Cushion Plug	1
EBCP-114	1-1/4" Entry Boot Cushion Plug	1
EBCP-158	1-5/8" Entry Boot Cushion Plug	1



Entry Panels

Part Number	Description	Qty.
PANEL-1-1X1	4" 1 port, 1 x 1	1
PANEL-2-1X2	4" 2 port, 1 x 2	1
PANEL-3-1X3	4" 3 port, 1 x 3	1
PANEL-4-1X4	4" 4 port, 1 x 4	1
PANEL-6-1X6	4" 6 port, 1 x 6	1
PANEL-4-2X2	4" 4 port, 2 x 2	1
PANEL-6-2X3	4" 6 port, 2 x 3	1
PANEL-8-2X4	4" 8 port, 2 x 4	1
PANEL-12-2X6	4" 12 port, 2 x 6	1
PANEL-12-3X4	4" 12 port, 3 x 4	1
PANEL-18-3X6	4" 18 port, 3 x 6	1
PANEL-16-4X4	4" 16 port, 4 x 4	1
PANEL-24-4X6	4" 24 port, 4 x 6	1



Entry Boots and Cushions

+ Manufactured from UV resistant EPDM rubber + Custom insert cushions available
+ Seals against moisture and dust ingress

Part Number	Description	Qty.
BOOT4	4" Entry Boot, Cushion not Included	1
BOOT5	5" Entry Boot, Cushion not Included	1
BOOTC-1-38	Entry Boot Cushion, 1 Hole for 3/8" Cable	1
BOOTC-3-38	Entry Boot Cushion, 3 Holes for 3/8" Cable	1
BOOTC-5-38	Entry Boot Cushion, 5 Holes for 3/8" Cable	1
BOOTC-9-38	Entry Boot Cushion, 9 Holes for 3/8" Cable	1
BOOTC-1-12	Entry Boot Cushion, 1 Hole for 1/2" Cable	1
BOOTC-2-12	Entry Boot Cushion, 2 Holes for 1/2" Cable	1
BOOTC-3-12	Entry Boot Cushion, 3 Holes for 1/2" Cable	1
BOOTC-4-12	Entry Boot Cushion, 4 Holes for 1/2" Cable	1
BOOTC-5-12	Entry Boot Cushion, 5 Holes for 1/2" Cable	1
BOOTC-9-12	Entry Boot Cushion, 9 Holes for 1/2" Cable	1
BOOTC-1-78	Entry Boot Cushion, 1 Hole for 7/8" Cable	1
BOOTC-2-78	Entry Boot Cushion, 2 Holes for 7/8" Cable	1
BOOTC-3-78	Entry Boot Cushion, 3 Holes for 7/8" Cable	1
BOOTC-4-78	Entry Boot Cushion, 4 Holes for 7/8" Cable	1
BOOTC-1-114	Entry Boot Cushion, 1 Hole for 1-1/4" Cable	1
BOOTC-1-158	Entry Boot Cushion, 1 Hole for 1-5/8" Cable	1
BOOTC-1-214	Entry Boot Cushion, 1 Hole for 2-1/4" Cable	1



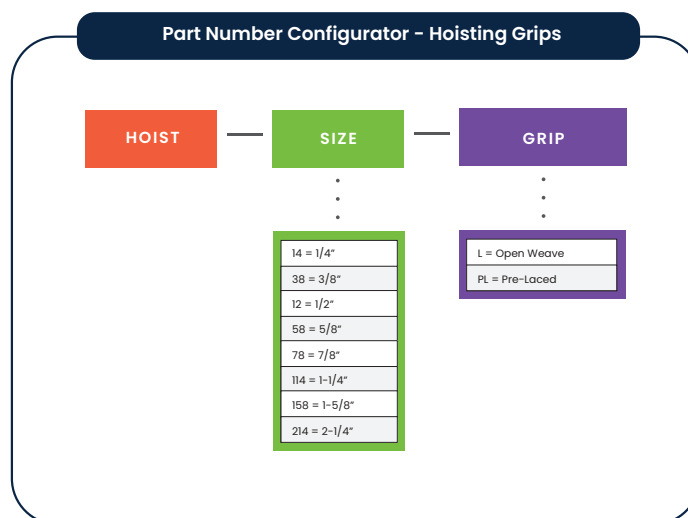
Hoisting Grips

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Hoisting Grips

- + Available in open and closed weave design
- + Custom sizes available upon request
- + Support clamp included with open weave grips



Cable Marking

Part Number	Description	Qty.
TAPE-35-XXX	3M 35 Vinyl Tape, 3/4"x66' - various colors	1
TAPE-1700C-XXX	3M 1700C Vinyl Tape, 3/4"x66' - various colors	1
FIBER-TAGS-GRAY	Fiber Tag, 1.75" x 1", Gray	1
FIBER-TAGS-WHITE	Fiber Tag, 1.75" x 1", White Nylon	1
WAXSTRING-SPOOL	9-Ply Wax String, 185yd	1

Weatherproofing

→	Tape.....	24
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Tape

Part Number	Description	Qty.
TAPE-33-BLK	3M Super 33+ Vinyl Tape 3/4"x66' - black	1
TAPE-23-BLK	3M 23 Self-Fusing Tape 1-1/2"x15' - black	1
TAPE-700-BLK	3M 700 Vinyl Tape 2"x20' - black	1
TAPE-BUTYL	Butyl Mastic 2-1/2"x24"	1
TAPE-WKIT-700	3M 700 Kit - (6) Butyl Mastic, (2) 3/4"x66' Tape, (1) 2"x20' Tape	1



Coldshrink

Part Number	Description	Qty.
CSHRINK-1A-6	Silicone Rubber Shrink Tube, 7-16 DIN Connectors, 6" Length	1
CSHRINK-DC-6	Silicone Rubber Shrink Tube, Mini-Din & Power, 6" Length	1



Clamshell Enclosures

Part Number	Description	Qty.
CLAM-12-ANT	1/2" to Antenna/Device	1
CLAM-12-ANT-SLIM	Slim 1/2" to Antenna/Device	1
CLAM-12-78	1/2" to 7/8"	1
CLAM-12-114	1/2" to 1-1/4"	1
CLAM-12-158	1/2" to 1-5/8"	1
CLAM-12-43-ANT	Weatherproof Enclosure, 1/2" to Antenna/Device, 4.3-10 Connector	1



Cable Assemblies

→ Coax Jumpers.....	26
RET Cables.....	26



Coax Jumpers Custom Product

- + For part number, please use Jumper Assembly Part Number Configurator
- + For coax configurations not listed below, please contact NWS for availability

Part Number Configurator - Coax Jumpers

CJ	CONN A	CONN A	CONN A	CONN B	CONN B SEX	CONN B SEX	CABLE TYPE	CABLE SIZE	TEST	LENGTH	UNIT
	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	•	•
	D = 7/16 DIN N = N 43 = 4.3-10 41 = 4.1-9.5	M = Male F = Female MR = M Rt Ang	B = Boot Blank for N/A	D = 7/16 DIN N = N 43 = 4.3-10 41 = 4.1-9.5	M = Male F = Female MR = M Rt Ang	B = Boot Blank for N/A	R = Regular S = Superflex	14 = 1/4" 38 = 3/8" 12 = 1/2"	PIM = PIM	Numerical value of length	FT = Feet M = Meter



RET Cables Custom Product

- + IP 68 rated for high resistance to moisture, contamination and corrosion
- + 8 pin Male to Female straight connectors
- + Custom lengths and connectors available

Part Number Configurator - RET Cables

CABLE	RET	SIZE																
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1 M	15 M	40 M	80 M															
2 M	20 M	50 M	90 M															
5 M	25 M	60 M	100 M															



Coax & Connectors

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RFS Coaxial Cable

- + Premium coaxial cables available with copper or aluminum outer conductor and foam or air dielectric
- + Wide range of applications

Part Number	Description	Qty.
LCF12-50J	1/2" CELLFLEX® Low-Loss Foam-Dielectric Coaxial Cable	1
SCF12-50J	1/2" CELLFLEX® Superflexible Foam-Dielectric Coaxial Cable	1
ICA12-50JPL	1/2" ClearFill® Plenum-Rated Air-Dielectric Coaxial Cable	1
LCF78-50JA	7/8" CELLFLEX® Low-Loss Foam-Dielectric Coaxial Cable	1
LCF158-50JA	1-5/8" CELLFLEX® Pm Attenuation Low-Loss Foam-Dielectric Coax	1



Commscope Coaxial Cable

- + Premium coaxial cables with corrugated copper
- + Black PE Jacket

Part Number	Description	Qty.
LDF4-50A	1/2" HELIAX® Low Density Foam Coaxial Cable	1
FSJ4-50B	1/2" HELIAX® Superflexible Foam Coaxial Cable	1
AVA5-50	7/8" HELIAX® Andrew Virtual Air™ Coaxial Cable	1
AVA6-50	1-1/4" HELIAX® Andrew Virtual Air™ Coaxial Cable	1
AVA7-50	1-5/8" HELIAX® Andrew Virtual Air™ Coaxial Cable	1



RFS OMNI FIT™ Premium Connectors

- + 5-point watertight design provides a secure and extremely watertight seal
- + Hassle-free installation

Part Number	Description	Qty.
716M-LCF12-D01	7-16 DIN Male Connector for 1/2" Coaxial Cable	1
716F-LCF12-D01	7-16 DIN Female Connector for 1/2" Coaxial Cable	1
716MR-LCF12-D01	7-16 DIN Male Connector for 1/2" Coaxial Cable, Right Angle	1
NM-LCF12-D01	N Male Connector for 1/2" Coaxial Cable	1
NF-LCF12-D01	N Female Connector for 1/2" Coaxial Cable	1
NMR-LCF12-D01	N Male Connector for 1/2" Coaxial Cable	1
43M-LCF12-D01	4.3-10 Male Straight Connector for 1/2" Coaxial Cable	1
43F-LCF12-D01	4.3-10 Female Straight Connector for 1/2" Coaxial Cable	1
43MR-LCF12-D01	4.3-10 Male Right Angle Connector for 1/2" Coaxial Cable	1
716M-SCF12-D01	7-16 DIN Male Connector for 1/2" Superflex Cable	1
716F-SCF12-D01	7-16 DIN Female Connector for 1/2" Coaxial Cable	1
716MR-SCF12-D01	7-16 DIN Male Connector for 1/2" Superflex Cable, Right Angle	1
NM-SCF12-D01	N Male Connector for 1/2" Coaxial Cable	1
NF-SCF12-D01	N Female Connector for 1/2" Coaxial Cable	1
NMR-SCF12-D01	N Male Connector for 1/2" Superflex Cable, Right Angle	1
716M-LCF78-D01	7-16 DIN Male Connector for 7/8" Coaxial Cable	1
716F-LCF78-D01	7-16 DIN Female Connector for 7/8" Coaxial Cable	1
716MR-LCF78-D01	7-16 DIN Male Connector for 7/8" Coaxial Cable, Right Angle	1
NM-LCF78-D01	N Male Connector for 7/8" Coaxial Cable	1
NF-LCF78-D01	N Female Connector for 7/8" Coaxial Cable	1
43M-LCF78-D01	4.3-10 Male Straight Connector for 7/8" Coaxial Cable	1
43F-LCF78-D01	4.3-10 Female Straight Connector for 7/8" Coaxial Cable	1
716M-LCF114-D01	7-16 DIN Male Connector for 1-1/4" Coaxial Cable	1
716F-LCF114-D01	7-16 DIN Female Connector for 1-1/4" Coaxial Cable	1
NM-LCF114-D01	N Male Connector for 1-1/4" Coaxial Cable	1
NF-LCF114-D01	N Female Connector for 1-1/4" Coaxial Cable	1
716M-LCF158-D01	7-16 DIN Male Connector for 1-5/8" Coaxial Cable	1
716F-LCF158-D01	7-16 DIN Female Connector for 1-5/8" Coaxial Cable	1
NM-LCF158-D01	N Male Connector for 1-5/8" Coaxial Cable	1
NF-LCF158-D01	N Female Connector for 1-5/8" Coaxial Cable	1



Commscope Connectors

Part Number	Description	Qty.
L4TDM-PSA	7-16 DIN Male Positive Stop™ for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable	1
L4TDF-PSA	7-16 DIN Female Positive Stop™ for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable	1
L4DR-PS	7-16 DIN Male Right Angle Positive Stop™ for 1/2 in LDF4-50A cable	1
L4TNM-PSA	Type N Male Positive Stop™ for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable	1
L4TNF-PSA	Type N Female Positive Stop™ for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable	1
L4NR-PS	Type N Male Right Angle Positive Stop™ for 1/2 in LDF4-50A cable	1
L4HM-D	4.3-10 Male for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable	1
L4HMP-D	4.3-10 Male Push Pull for 1/2 in LDF4-50A cable.	1
L4HF-D	4.3-10 Female for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable	1
F4PDMV2-C	7-16 DIN Male for 1/2 in FSJ4-50B cable	1
F4PDF-C	7-16 DIN Female for 1/2 in FSJ4-50B cable	1
F4DR-C	7-16 DIN Male Right Angle for 1/2 in FSJ4-50B cable	1
F4PNMV2-HC	Type N Male for 1/2 in FSJ4-50B cable	1
F4PNF-C	Type N Female for 1/2 in FSJ4-50B cable	1
F4NR-HC	Type N Male Right Angle for 1/2 in FSJ4-50B cable	1
F4HM-D	4.3-10 Male for 1/2 in FSJ4-50B cable	1
F4HR-D	4.3-10 Male, right angle, for 1/2 in FSJ4-50B cable	1
F4HF-D	4.3-10 Female for 1/2 in FSJ4-50B cable	1
78EZDM	7-16 DIN Male EZfit® for 7/8 in FXL-780, AVA5-50, and AVA5-50FX cable	1
78EZDF	7-16 DIN Female EZfit® for 7/8 in FXL-780, AVA5-50, and AVA5-50FX cable	1
78EZNM	Type N Male EZfit® for 7/8 in FXL-780, AVA5-50, and AVA5-50FX cable	1
78EZNF	Type N Female EZfit® for 7/8 in FXL-780, AVA5-50, and AVA5-50FX cable	1
A5NM-S	N Male for 7/8 in AVA5-50 and AVA5-50FX cable	1
A5NF-S	N Female for 7/8 in AVA5-50 and AVA5-50FX cable	1
A5DM-D	D-Class 7-16 DIN Male for 7/8 in AVA5-50 and AVA5-50FX cable	1
A5DF-D	D-Class 7-16 DIN Female for 7/8 in AVA5-50 and AVA5-50FX cable	1
A5HM-D	D-Class 4.3-10 Male for 7/8 in AVA5-50 and AVA5-50FX cable	1
A5HF-D	D-Class 4.3-10 Female for 7/8 in AVA5-50 and AVA5-50FX cable	1
114EZDM	7-16 DIN Male EZfit® for 1-1/4 in FXL1480 and AVA6-50 cable	1
114EZDF	7-16 DIN Female EZfit® for 1-1/4 in FXL1480 and AVA6-50 cable	1
114EZNM	Type N Male EZfit® for 1-1/4 in FXL1480 and AVA6-50 cable	1
114EZNF	Type N Female EZfit® for 1-1/4 in FXL1480 and AVA6-50 cable	1
AL6DM-PSA	7-16 DIN Male Positive Stop™ for 1-1/4 in AVA6-50 cable	1
AL6DF-PSA	7-16 DIN Female Positive Stop™ for 1-1/4 in AVA6-50 cable	1
A6HM-S	4.3-10 Male for 1-1/4 in AVA6-50 cable	1
A6HF-S	4.3-10 Female for 1-1/4 in AVA6-50 cable	1
158EZDM	7-16 DIN Male EZfit® for 1-5/8 in FXL-1873 and AVA7-50 cable	1
158EZDF	7-16 DIN Female EZfit® for 1-5/8 in FXL-1873 and AVA7-50 cable	1
158EZNM	Type N Male EZfit® for 1-5/8 in FXL-1873 and AVA7-50 cable	1
158EZNF	Type N Female EZfit® for 1-5/8 in FXL-1873 and AVA7-50 cable	1
AL7DM-PSA	7-16 DIN Male Positive Stop™ for 1-5/8 in cable	1
AL7DF-PSA	7-16 DIN Female Positive Stop™ for 1-5/8 in cable	1
AL7NM-PSA	Type N Male Positive Stop™ for 1-5/8 in cable	1
AL7NF-PSA	Type N Female Positive Stop™ for 1-5/8 in cable	1
A7HM-S	4.3-10 Male for 1-5/8 in AVA7-50 cable	1
A7HF-S	4.3-10 Female for 1-5/8 in AVA7-50 cable	1



JMA Connectors

Part Number	Description	Qty.
UXP-DM-12	7-16 DIN Male Connector for 1/2" Annular Cables	1
UXP-NM-12	N Male Connector for 1/2" Annular Cables	1
UXP-4MT-12	4.3-10 Male Connector for 1/2" Annular Cables	1
UXP-4RT-12	4.3-10 Right Angle Connector for 1/2" Annular Cables	1
UXP-4F-12	4.3-10 Female Connector for 1/2" Annular Cables	1
UXP-MRA-12	4.1-9.5 Mini DIN Right Angle Connector for 1/2" Annular Cables	1
UXP-4MP-12	4.3-10 Male Connector for 1/2" Annular Cable	1
UXP-4F-12S	4.3-10 Female Connector for 1/2" Superflexible Cables	1
UXP-4MP-12S	4.3-10 Male Connector for 1/2" Superflexible Cable	1
UXP-4MT-12S	4.3-10 Male Connector for 1/2" Superflexible Cables	1
UXP-4RT-12S	4.3-10 Right Angle Connector for 1/2" Superflexible Cables	1
UXP-DF-78	7-16 DIN Female Connector for 7/8" Annular Cables	1
UXP-4MT-78	4.3-10 Male Connector for 7/8" Annular Cables	1
UXP-4F-78	4.3-10 Female Connector for 7/8" Annular Cables	1
UXP-DF-158	7-16 DIN Female Connector for 1 5/8" Cables	1

Grounding

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Clip On Ground Kits

Part Number	Description	Qty.
GKC-12	Clip-On Ground Kit for 1/2" Coaxial Cable	1
GKC-78	Clip-On Ground Kit for 7/8" Coaxial Cable	1
GKC-114	Clip-On Ground Kit for 1-1/4" Coaxial Cable	1
GKC-158	Clip-On Ground Kit for 1-5/8" Coaxial Cable	1
GKC-214	Clip-On Ground Kit for 2-1/4" Coaxial Cable	1



Standard Ground Kits

Part Number	Description	Qty.
GK-38	Standard Ground Kit for 3/8" Coaxial Cable	1
CK-12	Standard Ground Kit for 1/2" Coaxial Cable	1
GK-78	Standard Ground Kit for 7/8" Coaxial Cable	1
GK-114	Standard Ground Kit for 1-1/4" Coaxial Cable	1
GK-158	Standard Ground Kit for 1-5/8" Coaxial Cable	1
GK-214	Standard Ground Kit for 2-1/4" Coaxial Cable	1



Universal Ground Kits

Part Number	Description	Qty.
GK-U	Universal Ground Kit with 5' Lead	1
GK-UT	Universal Ground Kit with 5' Lead (tinned)	1



Molds

Part Number	Description	Qty.
M-1313-S	Mold, #2 Solid Parallel Run to #2 Solid Thru Run	1
M-2781-S	Mold, #2 Solid Vert Drop End to Vert Steel Surface	1
M-503-S	Mold, #2 Solid Solid Horz 90 Deg End to 5/8" Vert Grnd Rod	1
M-5415-S	Mold, #2 Solid End to 1/4" Bus Thick Bus Bar Edge	1
M-545-S	Mold, #2 Solid Horz Thru to 5/8" Ground Rod Top	1
M-6199-S	Mold, #2 Solid to Vert Pipe 1.25" to 4" Pipe	1
M-6618-S	Mold, #2 Solid Run to Vertical Pipe, Top Feed	1
M-9233-S	Mold, 45 Deg #2 Solid Wire End to 1.25-4" OD Vert Steel Pipe	1



Weld Metal

Part Number	Description	Qty.
TW45EZ	exothermic weld metal, #45 cartridge size	1
TW65EZ	exothermic weld metal, #65 cartridge size	1
TW90EZ	exothermic weld metal, #90 cartridge size	1
TW150EZ	exothermic weld metal, #150 cartridge size	1



Tools & Accessories

Part Number	Description	Qty.
38-0309-00	Flint Ignitor	1
38-3922-00	Soft bristle mold cleaning brush	1
38EZLTRU	EZ Lite remote electric ignition	1
40-0106-32	Chain clamp for vertical pipe up to 4" in diameter	1
B106TW	Mold handle clamp with flint ignitor	1



Standard Buss Bars

- + Manufactured from 1/4" copper bar
- + Custom sizes and hole configurations available
- + Available in bare and tinned copper

Part Number	Description	Qty.
BB-S-46-CU	Standard Buss Bar, 4" x 6" *	1
BB-S-46-T	Standard Buss Bar, Tinned, 4" x 6" *	1
BB-S-410-CU	Standard Buss Bar, 4" x 10" *	1
BB-S-410-T	Standard Buss Bar, Tinned, 4" x 10" *	1
BB-S-412-CU	Standard Buss Bar, 4" x 12" *	1
BB-S-412-T	Standard Buss Bar, Tinned, 4" x 12" *	1
BB-S-414-CU	Standard Buss Bar, 4" x 14" *	1
BB-S-414-T	Standard Buss Bar, Tinned, 4" x 14" *	1
BB-S-420-CU	Standard Buss Bar, 4" x 20" *	1
BB-S-420-T	Standard Buss Bar, Tinned, 4" x 20" *	1
BB-S-424-CU	Standard Buss Bar, 4" x 24" *	1
BB-S-424-T	Standard Buss Bar, Tinned, 4" x 24" *	1



Buss Bar Mounting

- + Stainless steel attachment hardware
- + Glass reinforced polyester insulators

Part Number	Description	Qty.
BBS-K	Buss Bar Shelter Kit	1
BBT-K	Buss Bar Tower Kit	1
BBRM-K	Buss Bar Round Member Kit	1
BBU-K	Buss Bar Universal Kit	1
BBI-K	Buss Bar Insulator Kit	1



Universal Buss Bars

- + Manufactured from 1/4" copper bar
- + Custom sizes and hole configurations available
- + Available in bare and tinned copper

Part Number	Description	Qty.
BB-U-26-CU	2" x 6", Universal Hole Pattern *	1
BB-U-26-T	2" x 6", Tinned, Universal Hole Pattern *	1
BB-U-210-CU	2" x 10", Universal Hole Pattern *	1
BB-U-210-T	2" x 10", Tinned, Universal Hole Pattern *	1
BB-U-212-CU	2" x 12", Universal Hole Pattern *	1
BB-U-212-T	2" x 12", Tinned, Universal Hole Pattern *	1
BB-U-214-CU	2" x 14", Universal Hole Pattern *	1
BB-U-214-T	2" x 14", Tinned, Universal Hole Pattern *	1
BB-U-412-CU	4" x 12", Universal Hole Pattern *	1
BB-U-412-T	4" x 12", Tinned, Universal Hole Pattern *	1
BB-U-420-CU	4" x 20", Universal Hole Pattern *	1
BB-U-420-T	4" x 20", Tinned, Universal Hole Pattern *	1
BB-U-424-CU	4" x 24", Universal Hole Pattern *	1
BB-U-424-T	4" x 24", Tinned, Universal Hole Pattern *	1
BB-U-412-CU	4" x 12", Galvanized, Universal Hole Pattern *	1
BB-U-420-CU	4" x 20", Galvanized, Universal Hole Pattern *	1
BB-U-424-CU	4" x 24", Galvanized, Universal Hole Pattern *	1



Wire

→ Custom Wire.....	36
--------------------	----



Wire Custom Product

- + For part number, please use Wire Part Number Configurator
- + For wire configurations not listed below, please contact NWS for availability

Part Number Configurator - Wire

WIRE

TYPE

SIZE

COLOR

LIST2

LIST3

LIST4

THHN

TWIST

BARE

#14

#12

#10

#8

#6

#4

#2

1/0

2/0

4/0

GRAY

GREEN

BLACK

RED

BLUE

WHITE

BLUE/BLACK

RED/BLACK



Lugs

→	Part Number Configurator.....	38
	Heat Shrink.....	38



Lugs Custom Product

- + For part number, please use Lug Part Number Configurator
- + For lug configurations not listed below, please contact NWS for availability

Part Number Configurator - Lugs

LUG	WIRE SIZE	WIRE TYPE	# HOLES	HOLE SIZE	HOLE SPACING	ANGLE	INSPECTION WINDOW
	•	•	•	•	•	•	•
	•	•	•	•	•	•	•
	•	•	•	•	•	•	•
	1014= #10/4	SLD = Solid	1H= 1 Hole	14 = 1/4"	58 = 5/8"	90 = 90 Degree	WIN= Window
	8= #8	STR= Stranded	2H=2 Hole	38 = 3/8"	1 = 1"	S = Straight	Leave Blank for No Window
	6= #6	FLX = Flex			U = Universal		
	4= #4				0 = 1 Hole Lug		
	2= #2						
	10= 1/0						
	20= 2/0						
	40= 4/0						



Heat Shrink

- + Also available in longer lengths

Part Number	Description	Qty.
HSHRINK-14x48	3M FP-301 1/4"x4' - black or clear	1
HSHRINK-38x48	3M FP-301 3/8"x4' - black or clear	1
HSHRINK-12x48	3M FP-301 1/2"x4' - black or clear	1
HSHRINK-34x48	3M FP-301 3/4"x4' - black or clear	1
HSHRINK-1x48	3M FP-301 1"x4' - black or clear	1
HSHRINK-112x48	3M FP-301 1-1/2"x4' - black or clear	1



Conduit

→	Part Number Configurator.....	40
	Conduit Fittings.....	40
	Innerduct.....	41



Conduit Custom Product

- + For part number, please use Conduit Part Number Configurator
- + For conduit configurations not listed below, please contact NWS for availability

Part Number Configurator – Conduit

CONDUIT	TYPE	SIZE	SCH
	.	.	.
	.	.	.
	.	.	.
	PVC	3/8"	SCH 40
	RIGID	1/2"	SCH 80
	EMT	3/4"	Blank for N/A
	NM	1"	
	UL	1-1/4"	
	EF	1-1/2"	
		2"	
		2-1/2"	
		3"	
		3-1/2"	
		4"	
		5"	
		6"	

Conduit Fittings

- + NWS carries an extensive list of fittings, couplings and elbows for all types of conduit – from locknuts to compression fittings and TAs to straps, we've got you covered. These items are designed to provide high performance in demanding, wet or corrosive environments. Contact us for any conduit needs and let NWS help make your installation as smooth and easy as possible.





Innerduct

+ Available in various colors and sizes upon request

Part Number	Description	Qty.
INNERDUCT-1	HDPE Innerduct w/ Pull Tape, 1"	1
INNERDUCT-114	HDPE Innerduct w/ Pull Tape, 1-1/4"	1
INNERDUCT-112	HDPE Innerduct w/ Pull Tape, 1-1/2"	1
INNERDUCT-2	HDPE Innerduct w/ Pull Tape, 2"	1



Steel Products

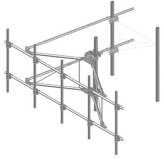


SABRE STEEL PRODUCTS

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STEEL PRODUCTS

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V-Boom

+ Includes tieback and crossover kits for 2-3/8" OD pipe

Part Number	Description	Qty.
C10857022CDP	HD V-Boom, 10' Face	1
C10857011CDP	HD V-Boom, 12' Face	1
C10857077C	EHD V-Boom, 12' Face	1



Monopole Platform

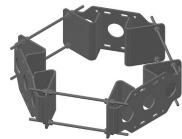
Part Number	Description	Qty.
C10851001DP	Low Profile Platform, Face Width of 10' or 12'	1
C10855111CDP	HC Low Profile Platform, 12' Face, Fits 10" to 40" Monopole	1
C10855115CDP	HD Low Profile Platform, 12' Face, Fits 10" to 40" Monopole	1



Handrail Kit

+ Includes 3 vertical pipes to support handrail

Part Number	Description	Qty.
C10116812DP	Platform Handrail Kit, 10'-0" Face	1
C10116813DP	Platform Handrail Kit, 12'-0" Face	1
C10116814DP	Platform Handrail Kit, 14'-0" Face	1



Collar Bracket

Part Number	Description	Qty.
C10112377	Tri-Collar Bracket Assembly, 10" - 40"	1
C10112378	Tri-Collar Bracket Assembly, 12" - 60"	1
C10110300	Bi/Quad Collar Bracket Assembly, 12" - 52"	1



Pipe Mount - Monopole

Part Number	Description	Qty.
C10899050	Pipe Mount Assembly, 4-1/2" OD X 7' for 10" - 40" Diameter Poles	1
C10899055	Pipe Mount Assembly, 4-1/2" OD X 7' for 12" - 60" Diameter Poles	1



Reinforcement Kit

Part Number	Description	Qty.
C10851201DP	Platform Reinforcement Kit, for 10" - 40" Diameter Poles	1
C10155100	Sector Mount Reinforcement Kit	1



Tower Components

Part Number	Description	Qty.
STK-U	Sector Frame Stiff Arm Kit	1
SAM-U	Universal Stiff Arm Attachment	1



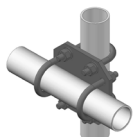
XLD Reinforcement Kits

Part Number	Description	Qty.
SFR-K	XLD Sector Frame Reinforcement Kit 24" to 36" Standoff	1
SFR-K-L	XLD Sector Frame Reinforcement Kit 36" to 48" Standoff	1



XLD Stabilizer Kits

Part Number	Description	Qty.
SFS-V	XLD Sector Frame Stabilizer Kit (Vertical)	1
SFS-H	XLD Sector Frame Stabilizer Kit (Horizontal)	1



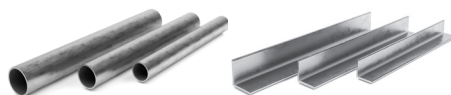
Crossover Plate Kits

+ Includes U-Bolts & Hardware

Part Number	Description	Qty.
CROSSOVER-PLATE-238X238	HDG Crossover Plate, 2-3/8" Pipe to 2-3/8" Pipe	1
CROSSOVER-PLATE-238X278	HDG Crossover Plate, 2-3/8" Pipe to 2-7/8" Pipe	1
CROSSOVER-PLATE-238X312	HDG Crossover Plate, 2-3/8" Pipe to 3-1/2" Pipe	1
CROSSOVER-PLATE-238X412	HDG Crossover Plate, 2-3/8" Pipe to 4-1/2" Pipe	1
CROSSOVER-PLATE-278X278	HDG Crossover Plate, 2-7/8" Pipe to 2-7/8" Pipe	1
CROSSOVER-PLATE-278X312	HDG Crossover Plate, 2-7/8" Pipe to 3-1/2" Pipe	1
CROSSOVER-PLATE-278X412	HDG Crossover Plate, 2-7/8" Pipe to 4-1/2" Pipe	1
CROSSOVER-PLATE-312X312	HDG Crossover Plate, 3-1/2" Pipe to 3-1/2" Pipe	1
CROSSOVER-PLATE-312X412	HDG Crossover Plate, 3-1/2" Pipe to 4-1/2" Pipe	1

Bulk Pipe & Angle

+ NWS carries a wide range of bulk pipes and angle to support equipment installation needs. Choose from our stock lengths or request a custom cut from your Account Manager.





Ice Bridge Components

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Horseheads

Part Number	Description	Qty.
HORSEHEAD-12	Waveguide 12" Support Bracket	1
HORSEHEAD-24	Waveguide 24" Support Bracket	1



Angle Brackets

Part Number	Description	Qty.
ANGLEB-HD-114-3X3X24	HDG Angle Bracket, 3"x3"x1-1/4" x2'	1



Grip Strut

Part Number	Description	Qty.
GRIPSTRUT-12X120	Grip Strut, 12"x10'	1
GRIPSTRUT-24X120	Grip Strut, 24"x10'	1



Pipes

Part Number	Description	Qty.
PIPE-312X126	Galvanized Pipe, 3-1/2" OD, 10'6" Long	1
PIPE-312X168	Galvanized Pipe, 3-1/2" OD, 14' Long	1
PIPE-312X216	Galvanized Pipe, 3-1/2" OD, 18' Long	1
PIPECAP-312	Pipe Cap for 3-1/2" OD	1



Trapeze Kits

Part Number	Description	Qty.
TRAPEZE-Z-12S	Trapeze Kit, 12" Z-Bracket, Single Stack for 7 Runs	1
TRAPEZE-Z-12D	Trapeze Kit, 12" Z-Bracket, Double Stack for 14 Runs	1
TRAPEZE-Z-12T	Trapeze Kit, 12" Z-Bracket, Triple Stack for 21 Runs	1
TRAPEZE-Z-21S	Trapeze Kit, 21" Z-Bracket, Single Stack for 14 Runs	1
TTRAPEZE-Z-21D	Trapeze Kit, 21" Z-Bracket, Double Stack for 28 Runs	1
TRAPEZE-Z-21T	Trapeze Kit, 21" Z-Bracket, Triple Stack for 42 Runs	1

Strut

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Unistrut

Part Number	Description	Qty.
UNISTRUT-158X120	HDG Unistrut, 1-5/8"x10'	1
UNISTRUT-1316X120	HDG Unistrut, 13/16"x10'	1



Strut Coupling

Part Number	Description	Qty.
STRUTCOU-158	EG Strut Coupling, 1-5/8"	1



Strut Straps

Part Number	Description	Qty.
RIG-HD-34	HDG Rigid Strut Strap, 3/4"	1
RIG-HD-1	HDG Rigid Strut Strap, 1"	1
RIG-HD-114	HDG Rigid Strut Strap, 1-1/4"	1
RIG-HD-112	HDG Rigid Strut Strap, 1-1/2"	1
RIG-HD-2	HDG Rigid Strut Strap, 2"	1
RIG-HD-212	HDG Rigid Strut Strap, 2-1/2"	1
RIG-HD-34	HDG Rigid Strut Strap, 3"	1
RIG-HD-312	HDG Rigid Strut Strap, 3-1/2"	1
RIG-HD-4	HDG Rigid Strut Strap, 4"	1
RIG-HD-6	HDG Rigid Strut Strap, 6"	1



End Caps

Part Number	Description	Qty.
STRUTCAP-158	Single End Cap, 1-5/8"x1-5/8"	1
STRUTCAP-1316	Single End Cap, 1-5/8"x13/16"	1
STRUTCAP-158D	Double End Cap, 1-5/8"x3-1/4"	1

Hardware

→	Bolts.....	50
	Washers.....	50
	Nuts.....	50
	U-Bolts.....	50
	J-Bolts.....	51
	Anchors.....	51
	Screws.....	51



Bolts

Part Number	Description	Qty.
BOLT-SS-14X1	Stainless Steel Hex Head Bolt Assembly, 1/4" x 1"	1
BOLT-SS-14X1/4	Stainless Steel Hex Head Bolt Assembly, 1/4" x 1-1/4"	1
BOLT-SS-38X38	Stainless Steel Hex Head Bolt Assembly, 3/8" x 3/8"	1
BOLT-SS-38X1/2	Stainless Steel Hex Head Bolt Assembly, 3/8" x 1/2"	1
BOLT-SS-38X3/4	Stainless Steel Hex Head Bolt Assembly, 3/8" x 3/4"	1
BOLT-SS-38X7/8	Stainless Steel Hex Head Bolt Assembly, 3/8" x 7/8"	1
BOLT-SS-38X1	Stainless Steel Hex Head Bolt Assembly, 3/8" x 1"	1



Washers

Part Number	Description	Qty.
FW-SS-1/4	SS Flat Washer, 1/4"	1
LW-SS-1/4	SS Lock Washer, 1/4"	1
TW-SS-1/4	SS Toothed Washer, 1/4"	1
FW-SS-3/8	SS Flat Washer, 3/8"	1
LW-SS-3/8	SS Lock Washer, 3/8"	1
TW-SS-3/8	SS Toothed Washer, 3/8"	1
SQW-EG-2X2	EG Square Washer, 1/2" 2"x2"	1
SQW-HD-3X3	HDG Square Washer, 1/2" 3"x3"	1



Nuts

Part Number	Description	Qty.
NUT-SS-1/4	SS Hex Nut, 1/4"	1
NUT-SS-3/8	SS Hex Nut, 3/8"	1
SNUT-HD-1/4	HDG Spring Nut, 1/4"	1
SNUT-SS-1/4	SS Spring Nut, 1/4"	1
SNUT-HD-3/8	HDG Spring Nut, 3/8"	1
SNUT-EG-3/8	EG Spring Nut, 3/8"	1
SNUT-KIN-3/8	Kindorf Spring Nut, 3/8"	1
SNUT-HD-1/2	HDG Spring Nut, 1/2"	1



U-Bolts

Part Number	Description	Qty.
UBOLT-HD-1	HDG U-Bolt, 1"	1
UBOLT-HD-1/2	HDG U-Bolt, 1-1/2"	1
UBOLT-HD-2	HDG U-Bolt, 2"	1
UBOLT-HD-2/2	HDG U-Bolt, 2-1/2"	1
UBOLT-HD-3	HDG U-Bolt, 3"	1
UBOLT-HD-3/2	HDG U-Bolt, 3-1/2"	1
UBOLT-HD-4	HDG U-Bolt, 4"	1



J-Bolts

Part Number	Description	Qty.
JBOLT-HD-38X4	HDG J-Bolt, 3/8"x4"	1
JBOLT-SS-38X4	SS J-Bolt, 3/8"x4"	1
JBOLT-HD-38X6	HDG J-Bolt, 3/8"x6"	1



Anchors

Part Number	Description	Qty.
ANC-M-14	Mushroom Anchor, 1/4"	1
ANCH-W-SS-12X334	SS Wedge Anchor, 1/2"x3-3/4"	1
ANCH-W-EG-12X414	EG Wedge Anchor, 1/2"x4-1/4"	1
BANCH-W-SS-12X512	SS Wedge Anchor, 1/2"x5-1/2"	1
ANCH-W-SS-38X334	SS Wedge Anchor, 3/8"x3-3/4"	1
ANCH-W-SS-58X112	SS Wedge Anchor, 5/8"x1-1/2"	1
ANCH-P-#10X1	Plastic Anchor, #10x1"	1



Screws

Part Number	Description	Qty.
SCR-HH-14X1	Hex Head Cap Screw, 1/4"x1"	1
SCR-TAP-#10X34	Tap Screw, #10x3/4"	1
SCR-TORX-#10X12	Torx Screw, #10x1/2"	1

Enclosures

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Direct Bury Enclosures.....	53





Enclosures

Part Number	Description	Qty.
AB-12126SB	Type 1 Screw Cover Box, 12"x12"x6"	1
A16R126HCR	Type 3R Medium NEMA Cabinet, 12"x16"x6"	1
AB-24248WL	Type 3R Large NEMA Cabinet, 24"x24"x8"	1
AB-363612WL	Type 3R Large NEMA Cabinet, 36"x36"x12"	1
A12-2424	PVC Junction Box, 24"x24"x12"	1

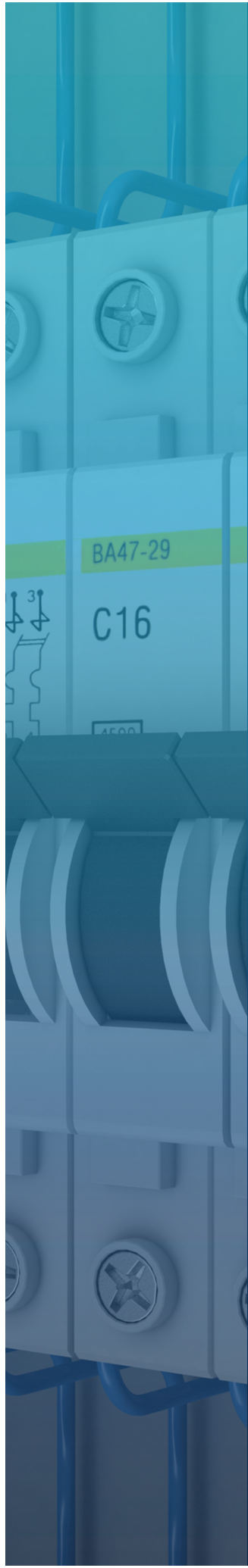


Direct Bury Enclosures

Part Number	Description	Qty.
PG1730BA18	Quazite Stackable Box, Open Bottom, 17"x30"x18"	1
PG1730CA0009	Quazite Blank Cover, 17"x30"	1

Breakers

→ AC Breakers.....	55
DC Breakers.....	55
Breaker Panel.....	56





AC Breakers

Part Number	Description	Qty.
BR115	BR Breaker, 15A 1P	1
BR120	BR Breaker, 20A 1P	1
BR125	BR Breaker, 25A 1P	1
BR130	BR Breaker, 30A 1P	1
BR140	BR Breaker, 40A 1P	1
BR215	BR Breaker, 15A 2P	1
BR220	BR Breaker, 20A 2P	1
BR225	BR Breaker, 25A 2P	1
BR230	BR Breaker, 30A 2P	1
BR235	BR Breaker, 35A 2P	1
BR240	BR Breaker, 40A 2P	1
BR245	BR Breaker, 45A 2P	1
BR250	BR Breaker, 50A 2P	1
BR260	BR Breaker, 60A 2P	1
BR270	BR Breaker, 70A 2P	1
BR280	BR Breaker, 80A 2P	1
BR290	BR Breaker, 90A 2P	1
BR2100	BR Breaker, 100A 2P	1
BR2125	BR Breaker, 125A 2P	1
BD1515	BR Twin Breaker, 15A/15A (2) 1P	1
BD2020	BR Twin Breaker, 20A/20A (2) 1P	1
BQ230230	BR Quad Breaker, 30A/30A (2) 2P	1
BQ240240	BR Quad Breaker, 40A/40A (2) 2P	1
CH115	CH Breaker, 15A 1P	1
CH250	CH Breaker, 50A 2P	1
CH260	CH Breaker, 60A 2P	1
CHQ260	Classified Breaker, 60A 2P	1
QO280	Square D QO Breaker, 80A 2P	1
QO2100	Square D QO Breaker, 100A 2P	1
QO2125	Square D QO Breaker, 125A 2P	1



DC Breakers

Part Number	Description	Qty.
LELK1-IREC4-30326-5	Bullet Breaker, 5A 1P	1
LELK1-IREC4-30326-10	Bullet Breaker, 10A 1P	1
LELK1-IREC4-30326-15	Bullet Breaker, 15A 1P	1
LELK1-IREC4-30326-20	Bullet Breaker, 20A 1P	1
LELK1-IREC4-30326-30	Bullet Breaker, 30A 1P	1
LELK1-IREC4-30326-50	Bullet Breaker, 50A 1P	1
LELK1-IREC4-30326-60	Bullet Breaker, 60A 1P	1
LELHPK11-IREC4-30559-125	Bullet Breaker, 125A 2P	1
LELK1-IRS4-30452-5	Bullet Breaker - White Handle, 5A 1P	1
LELK1-IRS4-30452-10	Bullet Breaker - White Handle, 10A 1P	1
LELK1-IRS4-30452-15	Bullet Breaker - White Handle, 15A 1P	1
LELK1-IRS4-30452-50	Bullet Breaker - White Handle, 50A 1P	1
LELK1-IRS4-27129-912	Bolt-In Breaker, 5A 1P	1
LELK1-IRS4-27129-916	Bolt-In Breaker, 10A 1P	1
LELK1-IRS4-27129-920	Bolt-In Breaker, 15A 1P	1
LELK1-IRS4-27129-924	Bolt-In Breaker, 20A 1P	1
LELK1-IRS4-27129-932	Bolt-In Breaker, 30A 1P	1
LELK1-IRS4-27129-944	Bolt-In Breaker, 50A 1P	1



Breaker Panel

- + Single-Phase Main Lug Loadcenter
- + Outdoor Enclosure
- + Wire Size Range #6-2/0

Part Number	Description	Qty.
BR1224L125R	125-Amp 12-Space 24-Circuit Type BR Main Lug Load Center NEMA 3R	1

Safety

→	Tower Rigging.....	58
	Capstan Winch and Accessories.....	58
	Tower Climbing.....	58
	RF Monitor.....	58



Tower Rigging

Part Number	Description	Qty.
CY-8048587	4.5" 4T FOR 5/8" ROPE CROSBY MCKISSICK BLOCK - 4-1/2" SHEAVE FOR 5/8" SYNTH ROPE	1
CY-8044078	1/2" SYNTH ROPE BLOCK CROSBY MCKISSICK BLOCK - 3" SHEAVE FOR 1/2" SYNTH ROPE	1
CY-1018491	4.75T SPA SHK 3/4" GALV Crosby G209 4.75t Screw Pin Anchor Shackle 3/4" Maxtough	1
CY-1018455	2.00T SPA SHK 1/2", GALV Crosby G209 2.00t Screw Pin Anchor Shackle 1/2" Maxtough	1
PZ-C40A 60	ANNEAU nylon sling, 60cm ANNEAU nylon sling, 60cm	1
LX-EN1-91P-03	1" ENDLESS POLY WEBSUNG, 1 PLY, 3' 1" X 3' ENDLESS SLINGS	1
LX-ENR2-03	GREEN ENDLESS ROUND SLING, 3'	1
LX-ENR2-06	GREEN ENDLESS ROUND SLING, 6'	1
LX-ENR2-08	GREEN ENDLESS ROUND SLING, 8'	1
GM-2000	4' x 2' Tower Job Site Safety Banner 4' x 2' Tower Climbing Job Site Safety Banner	1



Capstan Winch & Accessories

Part Number	Description	Qty.
T3081506	AB Chance T3081506 Capstan Swivel Base with C-Bracket	1
C3081170	AB Chance 1000 lb Capacity Capstan Hoist	1
C3080856	AB Chance Capstan Rope Lock	1



Tower Climbing

Part Number	Description	Qty.
PP-TW615ISV-YELLOW	Vented JSP Deluxe Climbing Helmet w/ 4-Point Chinstrap	1
DS-1110300/1/2/3	Exofit XP Tower Harness	1
DS-1000708/09/16/17	Exofit Belt	1
FP-63673	Eagle Sling / 1" x 3' / Loop Each End	1
GM-5416TC	Top Closing Canvas Bolt Bag	1
GM-3025	Large Gearbag, Red	1
FH-8259Y3	6' SAL Internal Y-Leg Lanyard, Loop + Re	1
DS-6160054	DBI LAD SAF X3 Wire Rope Grab w/ Carabiner for 3/8" Wire	1
GM-CARABINERPACK	Carabiner Variety Pack	1
WF-7475	Westfall Separator Spreader Bar	1
PZ-L52A002	2M, Grillon Adjustable Lanyard w/Handle and Protective Sheath	1
WF-7465	Westfall 3/4" Gate Snaphook	1

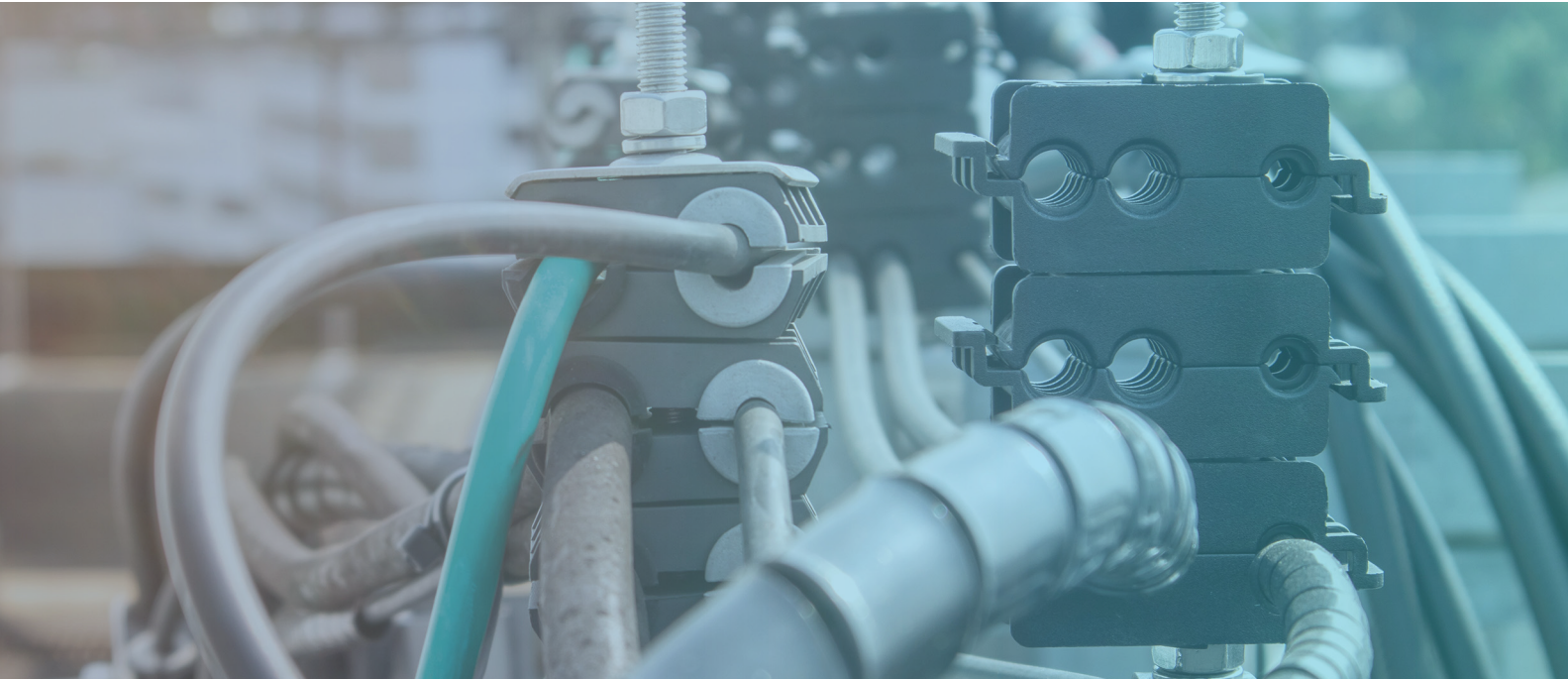


RF Monitor

Part Number	Description	Qty.
FS-FS2.0	FieldSense 2.0 Personal RF Monitor	1



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Materials Catalog 2022

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