

HELIAX[®] standard product selection guide for EMEA, CALA, and APAC second edition

COMMSCOPE[®]

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Reference Key

Connector type	Description
DM	DIN Male
DF	DIN Female
NM	N Type Male
NF	N Type Female
DR	DIN Right Angle Male
HM	4.3-10 Male
HF	4.3-10 Female
N	Right Angle Male
BHC	Bulk Head Connector
HMP	4.3-10 Male push/pull
HR	Right Angle 4.3-10
KM	4.1–9.5 DIN straight male

CommScope M-LOC Next Generation cluster solution



Cell towers are becoming increasingly overcrowded with antennas and related equipment. To alleviate tower loads and control tower-related expenses, mobile operators are upgrading antennas typically supporting two to eight radios. The result is an increasing number of RF ports that are packed within the same physical space as the older antennas. As antenna port counts increase, the time, complexity and physical risks of connecting dozens of connectors—while suspended atop a tower—creates a new challenge for mobile operators and their installation partners.

Understanding the trend toward more complex radios such as multiband FDD 4T4R and LTE TDD/5G NR 8T8R, CommScope has designed and developed M-LOC, a second-generation cluster connector technology. In addition to reducing installation time and costs, these new cluster connectors address key challenges such as mating issues, PIM reduction, advanced radio support and cable manageability.

Operators can now choose from cluster connectors that are optimized for reliable and consistent PIM performance for a wide range of applications—enabling them to take advantage of new antenna designs.

Similarly, connector OEMs are finding ways to better control insertion loss between the radio and antenna—leveraging the latest 3/8-in jumpers from CommScope that combine best-in-class attenuation with ease of deployment. By re-arranging the individual connectors, manufacturers can mate the cluster connector to larger diameter cables and reduce insertion loss.

Moreover, several BSA manufacturers are already using M-LOC for their products to simplify deployment, mitigate PIM and improve performance.



Key facts

- Patented latching mechanism
- Four- and five-port configurations
- Compact form factor footprint
- Available with 1/4-inch and low loss 3/8-inch jumper
- Dynamic PIM performance
- IP68 rated

Fast and easy installation

- Multipoint coaxial connection for easy and fast installation: just seven seconds to make four or five antenna connections
- Designed to be installed without tools, and virtually without training, as there is only one way to fasten it
- One-handed blind mating; visual indication and audible feedback of secure mating—taking mating uncertainty out of the equation
- Matching protrusion on housing; tamper resistant
- Center port flexibility—can be calibration or AISG

Application

- Outdoor macro network
- Outdoor small cells
- 5G multi-band antennas
- Multi-port communication devices

M-LOC 3/8" Cable Assemblies, Four and Five Port Clusters

Part Number	Cable Length (meters)	Description
MLOC-4-LS2XMNM-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to N male, size 3/8", length 3 meters
MLOC-4-LS2XMHM-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 3/8", length 3 meters
MLOC-4-LS2XMHM-2M	2 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 3/8", length 2 meters
MLOC-4-LS2XM-1M	1 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to open end, size 3/8", length 1 meter
MLOC-4-LS2XMHM-1M	1 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 3/8", length 1 meter
MLOC4-LS2MXM-15	15 feet	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 3/8", length 15feet
MLOC-4-LS2MXM-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 3/8", length 3Meters
MLOC-5-LS2XMHM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 3/8", length 3 meters
MLOC-5-LS2XMNM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to N male, size 3/8", length 3 meters
MLOC-5-LS2MXM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 3/8", length 3Meters
MLOC-5-LS2XMHM-2M	2 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 3/8", length 2 meters
MLOC-5-LS2XMHM-1M	1 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 3/8", length 1 meter
MLOC-5-LS2XM-HM-1M	1 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 3/8", length 1 meter
MLOC5-LS2MXM-15	15 feet	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 3/8", length 15feet

M-LOC 1/4" Cable Assemblies, Four and Five Port Clusters

Part Number	Cable Length (meters)	Description
MLOC-4-F1XM-HM-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 3 meters
MLOC-4-F1XM-HF-1M	1 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 1 meter
MLOC-4-F1XM-XM-M5	0.5 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 0.5 meters
MLOC-4-F1XM-HF-M5	0.5 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 0.5 meters
MLOC-4-F1XM-HF-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 1.5 meters
MLOC-4-F1XM-HF-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 3 meters
MLOC-4-F1XM-HM-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 1.5 meters
MLOC-4-F1XM-NM-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to N male, size 1/4", length 3 meters
MLOC-4-F1XM-XM-1M	1 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 1 meter
MLOC-4-F1XM-HM-2M	2 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 2 meters
MLOC-4-F1XM-HM-1M	1 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 1 meter
MLOC-4-F1XM-XM-5M	5 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 5 m
MLOC-4-F1XM-HM-5M	5 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 5 meters
MLOC-4-F1XM-XM-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 3 m
MLOC-4-F1XM-HM-M25	0.25 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 0.25 meters
MLOC-4-F1XM-HM-M3	0.3 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 0.3 meters
MLOC-4-F1XM-XM-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 1.5 meters

M-LOC 1/4" Cable Assemblies, Four and Five Port Clusters *continued*

Part Number	Cable Length (meters)	Description
MLOC4-F1XMHF-1M5C	1.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 1.5 meters, with co-polar port marking
MLOC4-F1XMXMW-5M	5 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male with HELIAX® SureGuard weatherproofing, size 1/4", length 5 m
MLOC4-F1XMXMW-5M	5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male with HELIAX® SureGuard weatherproofing, size 1/4", length 5 m
MLOC-5-F1XM-HM-M25	0.25 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 0.25 meters
MLOC-5-F1XM-XM-1M	1 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 1 meter
MLOC-5-F1XM-HF-1M	1 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 1 meter
MLOC-5-F1XM-HF-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 1.5 meters
MLOC-5-F1XM-HF-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 3 meters
MLOC-5-F1XM-HM-5M	5 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 5 meters
MLOC-5-F1XM-XM-5M	5 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 5 m
MLOC-5-F1XM-HF-M5	0.5 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 0.5 meters
MLOC-5-F1XM-NM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to N male, size 1/4", length 3 meters
MLOC-5-F1XM-HM-1M	1 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 1 meter
MLOC-5-F1XM-XM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 3 m
MLOC-5-F1XM-HM-2M	2 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 2 meters
MLOC-5-F1XM-HF-M3	0.3 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 0.3 meters
MLOC-5-F1XM-HM-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 1.5 meters

M-LOC 1/4" Cable Assemblies, Four and Five Port Clusters *continued*

Part Number	Cable Length (meters)	Description
MLOC-5-F1XM-HM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 3 meters
MLOC-5-F1XM-HM-M3	0.3 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 0.3 meters
MLOC-5-F1XM-XM-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 1.5 meters
MLOC-5-F1XM-XM-M3	0.3 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 0.3 meters
MLOC-5-F1XM-XM-M5	0.5 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 0.5 meters
MLOC5-F1XMHF-1M5C	1.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 female, size 1/4", length 1.5 meters, with co-polar port marking
MLOC5E-F1XMXM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male, size 1/4", length 3 m
MLOC5-F1XMXMW-5M	5 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to NEX10 male with HELIAX® SureGuard weatherproofing, size 1/4", length 5 m

M-LOC 1/4" Cable Assemblies, BSA Applications Four and Five Port Clusters

Part Number	Cable Length (meters)	Description
MLOC4-RGXF-3M5	3.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC female to open end, size 0.141", length 3.5 meters
MLOC4-RGXF-2M5	2.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC female to open end, size 0.141", length 2.5 meters
MLOC4-RGXF-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC female to open end, size 0.141", length 1.5 meters
MLOC4-RGXFHF-1M	1 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC female to 4.3-10 Panel Mount Female, size 0.141", length 1 meters
MLOC4-RGXFHF-1M	1 meter	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC female to 4.3-10 Panel Mount Female, size 0.141", length 1 meters
MLOC4-RGXFM4F-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC Female Panel mount to M-LOC Female Panel mount, size 0.141", length 3 meters
MLOC5-RGXF-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC female to open end, size 0.141", length 1.5 meters
MLOC5-RGXF-2M5	2.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC female to open end, size 0.141", length 2.5 meters
MLOC5-RGXF-3M5	3.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC female to open end, size 0.141", length 3.5 meters
MLOC5-RGXFM5F-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC female Panel mount to M-LOC Female Panel mount, size 0.141", length 3 meter
MLOC5-RGXFHF-1M	1 meter	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC female to 4.3-10 Female, size 0.141", length 1 meter

M-LOC 1/4" Birdproof Cable Assemblies , Four and Five Port Clusters

Part Number	Cable Length (meters)	Description
MLOC-4-F1BXMHM-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 3 meters, covered by conduit shield
MLOC-4-F1BXMHM-5M	5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 5 meters, covered by conduit shield
MLOC-4-F1BXM-HM-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 1.5 meters, covered by conduit shield
MLOC4-LS2XMHM-Q-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male push pull, size 3/8", length 3 meters
MLOC4-F1BXM-XM-5M	5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 1/4", length 5 meters, covered by conduit shield
MLOC4-F1BXM-XM-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 1/4", length 1.5 meters, covered by conduit shield
MLOC4-F1BXM-XM-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 1/4", length 3 meters, covered by conduit shield
MLOC-5-F1BXMHM-5M	5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 5 meters, covered by conduit shield
MLOC-5-F1BXMHM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 3 meters, covered by conduit shield
MLOC-5-F1BXM-HM-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male, size 1/4", length 1.5 meters, covered by conduit shield
MLOC5-LS2XMHM-Q-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male push pull, size 3/8", length 3 meters
MLOC5-F1BXM-XM-5M	5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 1/4", length 5 meters, covered by conduit shield
MLOC5-F1BXM-XM-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 1/4", length 3 meters, covered by conduit shield
MLOC5-F1BXM-XM-1M5	1.5 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to Nex10 male, size 1/4", length 1.5 meters, covered by conduit shield

M-LOC Test Adapters

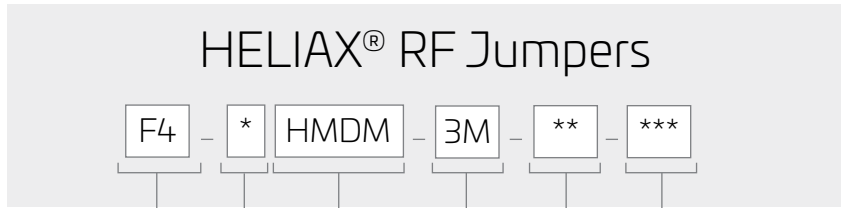
Part Number	Description
TA-MLOC5HF	HELIAX® M-LOC Male Multiport Cluster 5 ports to 4.3-10 Female RL Test Adapter
TA-MLOC4HF	HELIAX® M-LOC Male Multiport Cluster 4 ports to 4.3-10 Female RL Test Adapter

M-LOC Push Pull Cable Assemblies , Four and Five Port Clusters

Part Number	Cable Length (meters)	Description
MLOC5-LS2XMHMQ-3M	3 meters	HELIAX® M-LOC Multiport cluster 5 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male push pull, size 3/8", length 3 meters
MLOC4-LS2XMHMQ-3M	3 meters	HELIAX® M-LOC Multiport cluster 4 ports SureFlex® cable assembly with interface type M-LOC latching male to 4.3-10 male push pull, size 3/8", length 3 meters

HELIAX® RF Jumpers

Model Number Nomenclature Chart



Cable Type

F4	FSJ4-50B SureFlex 1/2" D-CLASS
F4A	FSJ4-50B 1/2"
F4C	FSJ4-50B 1/2"
L4	LDF4-50A 1/2" D-CLASS
L4A	LDF4-50A 1/2"
F4R, F4RNA	FIRE RETARDANT FSJ4
L4R, L4RNA	FIRE RETARDANT LDF4
HL	PLENUM (COPPER)

Wildcard A: P or HP

P	Plated (old nomenclature used on standard jumpers)
HP	HELIAX® Performance

Wildcard A: Examples

HM	4.3-10 STRAIGHT MALE
HR	4.3-10 RIGHT ANGLE MALE
DM	7-16 DIN STRAIGHT MALE
DR	7-16 DIN RIGHT ANGLE MALE
KM	4.1-9.5 DIN STRAIGHT MALE
HF	4.3-10 STRAIGHT FEMALE
DF	7-16 DIN STRAIGHT FEMALE

Length (M/Ft): Examples

3M	3 Meters
3M5	3.5 Meters
3	3 Feet

Wildcard B

-D	D-CLASS
-P	PREMIUM
-PB	PREMIUM BIRDPROOF
-SGW	SUREGUARD
-SGB	SUREGUARD BIRDPROOF
-X	PIGTAIL (1-END FIT)

Wildcard C

Only use when jumper is a D-Class variant with other features. -D is always last in the nomenclature.

-D	D-CLASS
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Example: F4-HM4M-3M-SGW-D SGW feature on a D-CLASS jumper

SureFlex® cable and connectors are physically bonded to create an assembly that delivers outstanding RF results where they matter most: passive intermodulation (PIM), voltage standing wave ratio (VSWR), and distance-to-fault (DTF).

CommScope tests each assembly for PIM, VSWR and DTF—sharing the results on WebTrak®.

SureFlex® cable assemblies meet IP68 standards

SureFlex Cable Assemblies; Superflexible 1/2-Inch Cable

Description	Cable Length (meters)	Part Number
7-16 DIN Male to 7-16 DIN Male	0.5M	F4-DMDM-M5-D
	1M	F4-DMDM-1M-D
	1.5M	F4-DMDM-1M5-D
	2M	F4-DMDM-2M-D
	2.5M	F4-DMDM-2M5-D
	3M	F4-DMDM-3M-D
	4M	F4-DMDM-4M-D
	5M	F4-DMDM-5M-D
	6M	F4-DMDM-6M-D
	10M	F4-DMDM-10M-D
7-16 DIN Male to 7-16 DIN Male Right Angle	3M	F4-DMDR-3M-D
	5M	F4-DMDR-5M-D
	6M	F4-DMDR-6M-D
	8M	F4-DMDR-8M-D
	10M	F4-DMDR-10M-D

SureFlex Cable Assemblies; Superflexible 1/2-Inch Cable *continued*

Description	Cable Length (meters)	Part Number
7-16 DIN Male to 7-16 DIN Male	0.5M	F4A-DMDM-M5-P
	1M	F4A-DMDM-1M-P
	1.5M	F4A-DMDM-1M5-P
	2M	F4A-DMDM-2M-P
	2.5M	F4A-DMDM-2M5-P
	3M	F4A-DMDM-3M-P
	3.5M	F4A-DMDM-3M5-P
	4M	F4A-DMDM-4M-P
	6M	F4A-DMDM-6M-P
	10M	F4A-DMDM-10M-P
7-16 DIN Male to 7-16 DIN Male Right Angle	3M	F4A-DMDR-3M-P
	5M	F4A-DMDR-5M-P
	6M	F4A-DMDR-6M-P
	8M	F4A-DMDR-8M-P
	10M	F4A-DMDR-10M-P

D-CLASS SureFlex Cable Assemblies; Superflexible 1/2-Inch Cable

Description	Cable Length (meters)	Part Number
4.3-10 Male to 7-16 DIN Male	0.5M	F4-HMHM-M5-D
	1M	F4-HMDM-1M-D
	1.5M	F4-HMDM-1M5-D
	2M	F4-HMDM-2M-D
	2.5M	F4-HMDM-2M5-D
	3M	F4-HMDM-3M-D
	4M	F4-HMDM-4M-D
	5M	F4-HMDM-5M-D
	6M	F4-HMDM-6M-D
	8M	F4-HMDM-8M-D
	10M	F4-HMDM-10M-D
4.3-10 Male Right Angle to 7-16 DIN Male	3M	F4-HRDM-3M-D
	5M	F4-HRDM-5M-D
	6M	F4-HRDM-6M-D
	8M	F4-HRDM-8M-D
	10M	F4-HRDM-10M-D
4.3-10 Male to 7-16 DIN Male Right Angle	3M	F4-HMDR-3M-D
	5M	F4-HMDR-5M-D
	6M	F4-HMDR-6M-D
	8M	F4-HMDR-8M-D
	10M	F4-HMDR-10M-D

D-CLASS SureFlex Cable Assemblies; Superflexible 1/2-Inch Cable *continued*

Description	Cable Length (meters)	Part Number
4.3-10 Male to 4.3-10 Male	0.5M	F4-HMHM-M5-D
	1M	F4-HMHM-1M-D
	1.5M	F4-HMHM-1M5-D
	2M	F4-HMHM-2M-D
	2.5M	F4-HMHM-2M5-D
	3M	F4-HMHM-3M-D
	4M	F4-HMHM-4M-D
	5M	F4-HMHM-5M-D
	6M	F4-HMHM-6M-D
	8M	F4-HMHM-8M-D
	10M	F4-HMHM-10M-D
4.3-10 Male Right Angle to 4.3-10 Male Right Angle	3M	F4-HMDR-3M-D
	5M	F4-HMDR-5M-D
	6M	F4-HMDR-6M-D
	8M	F4-HMDR-8M-D
	10M	F4-HMDR-10M-D

SureFlex Cable Assemblies; Standard 1/2-Inch Cable

Description	Cable Length (meters)	Part Number
7-16 DIN Male to 7-16 DIN Male	1M	L4A-DMDM-1M-P
	1.5M	L4A-DMDM-1M5-P
	2M	L4A-DMDM-2M-P
	2.5M	L4A-DMDM-2M5-P
	3M	L4A-DMDM-3M-P
	4M	L4A-DMDM-4M-P
	5M	L4A-DMDM-5M-P
	6M	L4A-DMDM-6M-P
	10M	L4A-DMDM-10M-P
	12M	L4A-DMDM-12M-P
7-16 DIN Male to 7-16 DIN Male Right Angle	18M	L4A-DMDM-18M-P
	2M	L4A-DMDR-2M-P
	2.5M	L4A-DMDR-2M5-P
	3M	L4A-DMDR-3M-P
	5M	L4A-DMDR-5M-P
	6M	L4A-DMDR-6M-P

D-CLASS SureFlex Cable Assemblies; Standard 1/2-Inch Cable

Description	Cable Length (meters)	Part Number
4.3-10 Male to 7-16 DIN Male	1M	L4-HMDM-1M-D
	1.5M	L4-HMDM-1M5-D
	2M	L4-HMHM-2M-D
	2.5M	L4-HMDM-2M5-D
	3M	L4-HMDM-3M-D
	4M	L4-HMDM-4M-D
	5M	L4-HMDM-5M-D
	6M	L4-HMDM-6M-D
	8M	L4-HMDM-8M-D
	10M	L4-HMDM-10M-D
4.3-10 Male to 7-16 DIN Male Right Angle	2M	L4-HMDR-2M-D
	2.5M	L4-HMDR-2M5-D
	3M	L4-HMDR-3M-D
	5M	L4-HMDR-5M-D
	6M	L4-HMDR-6M-D
4.3-10 Male Right Angle to 7-16 DIN Male	2M	L4-HRDM-2M-D
	2.5M	L4-HRDM-2M5-D
	3M	L4-HRDM-3M-D
	5M	L4-HRDM-5M-D
	6M	L4-HRDM-6M-D

D-CLASS SureFlex Cable Assemblies; Standard 1/2-Inch Cable *continued*

Description	Cable Length (meters)	Part Number
4.3-10 Male to 4.3-10 Male	1M	L4-HMHM-1M-D
	1.5M	L4-HMHM-1M5-D
	2M	L4-HMHM-2M-D
	2.5M	L4-HMHM-2M5-D
	3M	L4-HMHM-3M-D
	4M	L4-HMHM-4M-D
	5M	L4-HMHM-5M-D
	6M	L4-HMHM-6M-D
	8M	L4-HMHM-8M-D
	10M	L4-HMHM-10M-D

D-CLASS SureFlex Cable Assemblies; Standard 1/2-Inch Cable with SureGuard weatherproofing

Description	Cable Length (meters)	Part Number
4.3-10 Male to 7-16 DIN Male	1M	L4-HMDM-1M-SGW-D
	1.5M	L4-HMDM-1M5-SGW-D
	2M	L4-HMDM-2M-SGW-D
	2.5M	L4-HMDM-2M5-SGW-D
	3M	L4-HMDM-3M-SGW-D
	4M	L4-HMDM-4M-SGW-D
	5M	L4-HMDM-5M-SGW-D
	6M	L4-HMDM-6M-SGW-D
	8M	L4-HMDM-8M-SGW-D
	10M	L4-HMDM-10M-SGW-D
4.3-10 Male to 4.3-10 Male	1M	L4-HMHM-1M-SGW-D
	1.5M	L4-HMHM-1M5-SGW-D
	2M	L4-HMHM-2M-SGW-D
	2.5M	L4-HMHM-2M5-SGW-D
	3M	L4-HMHM-3M-SGW-D
	4M	L4-HMHM-3M5-SGW-D
	5M	L4-HMHM-5M-SGW-D
	6M	L4-HMHM-6M-SGW-D
	8M	L4-HMHM-8M-SGW-D
	10M	L4-HMHM-10M-SGW-D

D-CLASS SureFlex Cable Assemblies; Standard 1/2-Inch Cable with SureGuard weatherproofing *continued*

Description	Cable Length (meters)	Part Number
7-16 DIN Male to 7-16 DIN Male	1M	L4A-DMDM-1M-P-SGW
	1.5M	L4A-DMDM-1M5-P-SGW
	2M	L4A-DMDM-2M-P-SGW
	2.5M	L4A-DMDM-2M5-P-SGW
	3M	L4A-DMDM-3M-P-SGW
	3.5M	L4A-DMDM-3M5-P-SGW
	5M	L4A-DMDM-5M-P-SGW
	6M	L4A-DMDM-6M-P-SGW
7-16 DIN Male to 7-16 DIN Male Right Angle	2M	L4A-DMDR-2M-P-SGW
	2.5M	L4A-DMDR-2M5-P-SGW
	3M	L4A-DMDR-3M-P-SGW
	5M	L4A-DMDR-5M-P-SGW
	6M	L4A-DMDR-6M-P-SGW

SureFlex Cable Assemblies; Superflexible 1/4-Inch Cable

Description	Cable Length (meters)	Part Number
SureFlex Cable Assemblies		
With superflexible 1/4-Inch FSJ1-50A		
4.3-10 Male to 4.3-10 Male	1M	F1A-HMHM-1M-P
	2M	F1A-HMHM-2M-P
	3M	F1A-HMHM-3M-P
	4M	F1A-HMHM-4M-P
	5M	F1A-HMHM-5M-P
	10M	F1A-HMHM-10M-P
	20M	F1A-HMHM-20M-P
4.3-10 Male to 4.3-10 Male Right Angle	1M	F1A-HMHR-1M-P
	2M	F1A-HMHR-2M-P
	3M	F1A-HMHR-3M-P
	4M	F1A-HMHR-4M-P
	5M	F1A-HMHR-5M-P
	10M	F1A-HMHR-10M-P
	20M	F1A-HMHR-20M-P
4.3-10 Male to 7-16 DIN Male	1M	F1A-HMDM-1M-P
	2M	F1A-HMDM-2M-P
	3M	F1A-HMDM-3M-P
	4M	F1A-HMDM-4M-P
	5M	F1A-HMDM-5M-P
	10M	F1A-HMDM-10M-P
	20M	F1A-HMDM-20M-P

SureFlex Cable Assemblies; Superflexible 1/4-Inch Cable *continued*

Description	Cable Length (meters)	Part Number
SureFlex Cable Assemblies		
With superflexible 1/4-Inch FSJ1-50A		
7-16 DIN Male to 7-16 DIN Male Right Angle	1M	F1A-DMDR-1M-P
	2M	F1A-DMDR-2M-P
	3M	F1A-DMDR-3M-P
	4M	F1A-DMDR-4M-P
	5M	F1A-DMDR-5M-P
	10M	F1A-DMDR-10M-P
	20M	F1A-DMDR-20M-P

D-CLASS SureFlex Cable Assemblies Available:

D-Class Jumpers Order Configuration

F1-HMHH-X-D

D-Class with SureGuard Boot Order Configuration

F1-HMHH-*-W-D

**Stock and Return Conditions Apply to All 1/4" and 3/8" Assemblies

SureFlex Cable Assemblies; Superflexible 3/8-Inch Cable

Description	Cable Length (meters)	Part Number
SureFlex Cable Assemblies		
With superflexible 3/8-Inch FSJ2-50		
4.3-10 Male to 4.3-10 Male	1M	F2A-HMHM-1M-P
	2M	F2A-HMHM-2M-P
	3M	F2A-HMHM-3M-P
	4M	F2A-HMHM-4M-P
	5M	F2A-HMHM-5M-P
	10M	F2A-HMHM-10M-P
	20M	F2A-HMHM-20M-P
4.3-10 Male to 4.3-10 Male Right Angle	1M	F2A-HMHR-1M-P
	2M	F2A-HMHR-2M-P
	3M	F2A-HMHR-3M-P
	4M	F2A-HMHR-4M-P
	5M	F2A-HMHR-5M-P
	10M	F2A-HMHR-10M-P
	20M	F2A-HMHR-20M-P
4.3-10 Male to 7-16 DIN Male	1M	F2A-HMDM-1M-P
	2M	F2A-HMDM-2M-P
	3M	F2A-HMDM-3M-P
	4M	F2A-HMDM-4M-P
	5M	F2A-HMDM-5M-P
	10M	F2A-HMDM-10M-P
	20M	F2A-HMDM-20M-P

SureFlex Cable Assemblies; Superflexible 3/8-Inch Cable *continued*

Description	Cable Length (meters)	Part Number
SureFlex Cable Assemblies		
With superflexible 3/8-Inch FSJ2-50		
4.3-10 Male to 7-16 DIN Male Right Angle	1M	F2A-HMDR-1M-P
	2M	F2A-HMDR-2M-P
	3M	F2A-HMDR-3M-P
	4M	F2A-HMDR-4M-P
	5M	F2A-HMDR-5M-P
	10M	F2A-HMDR-10M-P
	20M	F2A-HMDR-20M-P
7-16 DIN Male to 7-16 DIN Male Right Angle	1M	F2A-DMDR-1M-P
	2M	F2A-DMDR-2M-P
	3M	F2A-DMDR-3M-P
	4M	F2A-DMDR-4M-P
	5M	F2A-DMDR-5M-P
	10M	F2A-DMDR-10M-P
	20M	F2A-DMDR-20M-P

D-CLASS SureFlex Cable Assemblies Available:

D-Class Jumpers Order Configuration

F2-HMHM-xx-D

D-Class with SureGuard Boot Order Configuration

F2-HMHM-xx-W-D (for two boots)

F2-HMHM-xx-W1-D (for one boot)

*Stock and Return Conditions Apply to All 1/4" and 3/8" Assemblies

Plenum cable assemblies

Part Number	Cable Length (feet)	Part Description
HL4RPV plenum cable assemblies		
H4-HMHM-10-P	10'	HL4-50 Plenum Rated 1/2" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 10'
H4-HMHM-20-P	20'	HL4-50 Plenum Rated 1/2" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 20'
H4-HMHM-30-P	30'	HL4-50 Plenum Rated 1/2" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 30'
H4-HMHM-40-P	40'	HL4-50 Plenum Rated 1/2" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 40'
H4-HMHM-50-P	50'	HL4-50 Plenum Rated 1/2" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 50'
H4-NMNM-10-P	10'	HL4-50 Plenum Rated 1/2" Cable Assembly (N Type male / N Type male) 10'
H4-NMNM-20-P	20'	HL4-50 Plenum Rated 1/2" Cable Assembly (N Type male / N Type male) 20'
H4-NMNM-30-P	30'	HL4-50 Plenum Rated 1/2" Cable Assembly (N Type male / N Type male) 30'
H4-NMNM-40-P	40'	HL4-50 Plenum Rated 1/2" Cable Assembly (N Type male / N Type male) 40'
H4-NMNM-50-P	50'	HL4-50 Plenum Rated 1/2" Cable Assembly (N Type male / N Type male) 50'
H4-NMNM-60-P	60'	HL4-50 Plenum Rated 1/2" Cable Assembly (N Type male / N Type male) 60'
PTS1 plenum cable assemblies		
PTS1P-HMHM-10-P	10'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 10'
PTS1P-HMHM-20-P	20'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 20'
PTS1P-HMHM-30-P	30'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 30'
PTS1P-HMHM-40-P	40'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 40'
PTS1P-HMHM-50-P	50'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (Type 4.3-10 male / 4.3-10 male) 50'
PTS1P-NMNM-10-P	10'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (N Type male / N Type male) 10'
PTS1P-NMNM-20-P	20'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (N Type male / N Type male) 20'
PTS1P-NMNM-30-P	30'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (N Type male / N Type male) 30'
PTS1P-NMNM-40-P	40'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (N Type male / N Type male) 40'
PTS1P-NMNM-50-P	50'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (N Type male / N Type male) 50'
PTS1P-NMNM-60-P	60'	PTS1-50-P Plenum Rated 1/4" Cable Assembly (N Type male / N Type male) 60'

Contact your CommScope representative for longer lengths.

Small-Cell Coax Jumper Configurations

Features

- New LSF2-50 low loss superflexible 3/8" cable
- Attenuation is comparable to 1/2" cable while maintaining the size and bending properties of 3/8"
- Optimized for small cell applications, tested to 6Ghz
- Guaranteed PIM performance at -119dBm for D-class

D Class LSF2 jumpers (3/8" with electrical performance of 1/2")

D Class LSF2 jumpers (3/8" with electrical performance of 1/2")						
	NEX10 Male (XM)	4.3-10 Male (HM)	4.3-10 Male R/A (HR)	4.3-10 Push-Pull (HMP)	7/16 DIN Male (DM)	N Male (NM)
NEX10 Male (XM)	LS2-XMXXM-xx-D LS2-XMXXM-xx-W-D ¹	LS2-XMHM-xx-D LS2-XMHM-xx-W-D ¹	LS2-XMHR-xx-D LS2-XMHR-xx-W1-D ²	LS2-XMHMP-xx-D LS2-XMHMP-xx-W1-D ²	LS2-XMDM-xx-D LS2-XMDM-xx-W1-D ²	LS2-XMNM-xx-D LS2-XMNM-xx-W1-D ²
4.3-10 Male (HM)	LS2-XMHM-xx-D LS2-XMHM-xx-W-D ¹	LS2-HMHM-xx-D LS2-HMHM-xx-W-D ¹	LS2-HMHR-xx-D LS2-HMHR-xx-W1-D ³	LS2-HMHMP-xx-D LS2-HMHMP-xx-W1-D ³	LS2-HMDM-xx-D LS2-HMDM-xx-W1-D ³	LS2-HMNM-xx-D LS2-HMNM-xx-W1-D ³
4.3-10 Male R/A (HR)	LS2-XMHR-xx-D LS2-XMHR-xx-W1-D ²	LS2-HMHR-xx-D LS2-HMHR-xx-W1-D ³	LS2-HRHR-xx-D	LS2-HMPHR-xx-D	LS2-HRDM-xx-D	LS2-HRNM-xx-D
4.3-10 Push-Pull (HMP)	LS2-XMHMP-xx-D LS2-XMHMP-xx-W1-D ²	LS2-HMHMP-xx-D LS2-HMHMP-xx-W1-D ³	LS2-HMPHR-xx-D	LS2-HMPHMP-xx-D	LS2-HMPDM-xx-D	LS2-HMPNM-xx-D
7/16 DIN Male (DM)	LS2-XMDM-xx-D LS2-XMDM-xx-W1-D ²	LS2-HMDM-xx-D LS2-HMDM-xx-W1-D ³	LS2-HRDM-xx-D	LS2-HMPDM-xx-D	LS2-DMDM-xx-D	LS2-NMDM-xx-D
N Male (NM)	LS2-XMNM-xx-D LS2-XMNM-xx-W1-D ²	LS2-HMNM-xx-D LS2-HMNM-xx-W1-D ³	LS2-HRNM-xx-D	LS2-HMPNM-xx-D	LS2-NMDM-xx-D	LS2-NMNM-xx-D

Note: Replace xx with the length in feet or meters.

Example: 10 feet = LS2-XMXXM-10-D

Example: 10 meters = LS2-XMXXM-10M-D

¹For WPS on both ends

²For WPS on XM end

³For WPS on HM end

P Class FSJ1 jumpers (1/4")

P Class FSJ1 jumpers (1/4")					
	NEX10 Male (XM)	NEX10 Male R/A (XR)	NEX10 Push-Pull (XMP)	4.3-10 Male (HM)	4.3-10 Male R/A (HR)
NEX10 Male (XM)	F1A-XXXM-xx-P F1A-XXXM-xx-P-W ¹	F1A-XXXR-xx-P F1A-XXXR-xx-P-W ²	F1A-XXMP-xx-P F1A-XXMP-xx-P-W ²	F1A-XXHM-xx-P F1A-XXHM-xx-P-W ¹	F1A-XXHR-xx-P F1A-XXHR-xx-P-W ²
NEX10 Male R/A (XR)	F1A-XXXR-xx-P F1A-XXXR-xx-P-W ²	F1A-XXRR-xx-P	F1A-XXMPR-xx-P	F1A-XXRM-xx-P F1A-XXRM-xx-P-W ³	F1A-XXRR-xx-P
NEX10 Push-Pull (XMP)	F1A-XXMP-xx-P F1A-XXMP-xx-P-W ²	F1A-XXMPR-xx-P	F1A-XXMPMP-xx-P	F1A-XXPHM-xx-P F1A-XXPHM-xx-P-W ³	F1A-XXMPHR-xx-P
4.3-10 Male (HM)	F1A-XXHM-xx-P F1A-XXHM-xx-P-W ¹	F1A-XXRM-xx-P F1A-XXRM-xx-P-W ³	F1A-XXPHM-xx-P F1A-XXPHM-xx-P-W ³	F1A-XXHM-xx-P F1A-XXHM-xx-P-W ¹	F1A-XXHR-xx-P F1A-XXHR-xx-P-W ³
4.3-10 Male R/A (HR)	F1A-XXHR-xx-P F1A-XXHR-xx-P-W ²	F1A-XXRR-xx-P	F1A-XXMPHR-xx-P	F1A-XXHR-xx-P F1A-XXHR-xx-P-W ³	F1A-XXRR-xx-P
4.3-10 Female (HF)	F1A-XXHF-xx-P F1A-XXHF-xx-P-W ²	F1A-XXRF-xx-P	F1A-XXPHF-xx-P	F1A-XXHF-xx-P F1A-XXHF-xx-P-W ³	F1A-XXFR-xx-P
4.3-10 Push-Pull (HMP)	F1A-XXHMP-xx-P F1A-XXHMP-xx-P-W ²	F1A-XXRHMP-xx-P	F1A-XXPHMP-xx-P	F1A-XXHMP-xx-P F1A-XXHMP-xx-P-W ³	F1A-XXMPHR-xx-P
7/16DIN Male (DM)	F1A-XXDM-xx-P F1A-XXDM-xx-P-W ¹	F1A-XXRD-xx-P F1A-XXRD-xx-P-W ⁴	F1A-XXMPDM-xx-P F1A-XXMPDM-xx-P-W ⁴	F1A-XXMDM-xx-P F1A-XXMDM-xx-P-W ¹	F1A-XXRDM-xx-P F1A-XXRDM-xx-P-W ⁴
7/16DIN Male R/A (DR)	F1A-XXDR-xx-P F1A-XXDR-xx-P-W ²	F1A-XXRR-xx-P	F1A-XXMPDR-xx-P	F1A-XXMDR-xx-P F1A-XXMDR-xx-P-W ³	F1A-XXRR-xx-P
7/16DIN Female (DF)	F1A-XXDF-xx-P F1A-XXDF-xx-P-W ²	F1A-XXRDF-xx-P	F1A-XXMPDF-xx-P	F1A-XXMDF-xx-P F1A-XXMDF-xx-P-W ³	F1A-XXRDF-xx-P
N Male (NM)	F1A-XXNM-xx-P F1A-XXNM-xx-P-W ²	F1A-XXRNM-xx-P	F1A-XXMPNM-xx-P	F1A-XXNM-xx-P F1A-XXNM-xx-P-W ³	F1A-XXRNM-xx-P
N Male R/A (NR)	F1A-XXNR-xx-P F1A-XXNR-xx-P-W ²	F1A-XXRNR-xx-P	F1A-XXMPNR-xx-P	F1A-XXNMR-xx-P F1A-XXNMR-xx-P-W ³	F1A-XXRNR-xx-P
N Female (NF)	F1A-XXNF-xx-P F1A-XXNF-xx-P-W ²	F1A-XXRNF-xx-P	F1A-XXMPNF-xx-P	F1A-XXNMF-xx-P F1A-XXNMF-xx-P-W ³	F1A-XXRNF-xx-P

Note: Replace xx with the length in feet or meters.

Example: 10 feet = F1A-XXXM-10-P

Example: 10 meters = F1A-XXXM-10M-P

¹For WPS on both ends

²For WPS on XM end

³For WPS on HM end

⁴For WPS on DM end

P Class FSJ1 jumpers (1/4") continued

P Class FSJ1 jumpers (1/4")					
	4.3-10 Female (HF)	4.3-10 Push-Pull (HMP)	7/16DIN Male (DM)	7/16DIN Male R/A (DR)	7/16DIN Female (DF)
NEX10 Male (XM)	F1A-XMHF-xx-P F1A-XMHF-xx-P-W1 ²	F1A-XMHMP-xx-P F1A-XMHMP-xx-P-W1 ²	F1A-XMDM-xx-P F1A-XMDM-xx-P-W ¹	F1A-XMDR-xx-P F1A-XMDR-xx-P-W1 ²	F1A-XMDF-xx-P F1A-XMDF-xx-P-W1 ²
NEX10 Male R/A (XR)	F1A-XRHF-xx-P	F1A-XRHMP-xx-P	F1A-XRDM-xx-P F1A-XRDM-xx-P-W1 ⁴	F1A-XRDR-xx-P	F1A-XRDF-xx-P
NEX10 Push-Pull (XMP)	F1A-XMPHF-xx-P	F1A-XMPHMP-xx-P	F1-XMPDM-xx-P F1A-XMPDM-xx-P-W1 ⁴	F1A-XMPDR-xx-P	F1A-XMPDF-xx-P
4.3-10 Male (HM)	F1A-HMHF-xx-P F1A-HMHF-xx-P-W1 ³	F1A-HMHMP-xx-P F1A-HMHMP-xx-P-W1 ³	F1A-HMDM-xx-P F1A-HMDM-xx-P-W ¹	F1A-HMDR-xx-P F1A-HMDR-xx-P-W1 ³	F1A-HMDF-xx-P F1A-HMDF-xx-P-W1 ³
4.3-10 Male R/A (HR)	F1A-HFHR-xx-P	F1A-HMPHR-xx-P	F1A-HRDM-xx-P F1A-HRDM-xx-P-W1 ⁴	F1A-HRDR-xx-P	F1A-HRDF-xx-P
4.3-10 Female (HF)	F1A-HFHF-xx-P	F1A-HMPHF-xx-P	F1A-HFDM-xx-P F1A-HFDM-xx-P-W1 ⁴	F1A-HFDR-xx-P	F1A-HFDF-xx-P
4.3-10 Push-Pull (HMP)	F1A-HMPHF-xx-P	F1A-HMPHMP-xx-P	F1A-HMPDM-xx-P F1A-HMPDM-xx-P-W1 ⁴	F1A-HMPDR-xx-P	F1A-HMPDF-xx-P
7/16DIN Male (DM)	F1A-HFDM-xx-P F1A-HFDM-xx-P-W1 ⁴	F1A-HMPDM-xx-P F1A-HMPDM-xx-P-W1 ⁴	F1A-DMDM-xx-P F1A-DMDM-xx-P-W ¹	F1A-HRDM-xx-P F1A-HRDM-xx-P-W1 ⁴	F1A-DMDF-xx-P F1A-DMDF-xx-P-W1 ⁴
7/16DIN Male R/A (DR)	F1A-HFDR-xx-P	F1A-HMPDR-xx-P	F1A-HRDM-xx-P F1A-HRDM-xx-P-W1 ⁴	F1A-DRDR-xx-P	F1A-DFDR-xx-P
7/16DIN Female (DF)	F1A-HFDF-xx-P	F1A-HMPDF-xx-P	F1A-DMDF-xx-P F1A-DMDF-xx-P-W1 ⁴	F1A-DFDR-xx-P	F1A-DFDF-xx-P
N Male (NM)	F1A-HFNM-xx-P	F1A-HMPNM-xx-P	A-NMDM-xx-P F1A-NMDM-xx-P-W1 ⁴	F1A-NMDR-xx-P	F1A-NMDF-xx-P
N Male R/A (NR)	F1A-HFNR-xx-P	F1A-HMPNR-xx-P	F1A-NRDM-xx-P F1A-NRDM-xx-P-W1 ⁴	F1A-NRDR-xx-P	F1A-NRDF-xx-P
N Female (NF)	F1A-HFNF-xx-P	F1A-HMPNF-xx-P	F1A-NFDM-xx-P F1A-NFDM-xx-P-W1 ⁴	F1A-NFDR-xx-P	F1A-NFDF-xx-P

Note: Replace xx with the length in feet or meters.

Example: 10 feet = F1A-XMHMP-10-P

Example: 10 meters = F1A-XMHMP-10M-P

¹For WPS on both ends

²For WPS on XM end

³For WPS on HM end

⁴For WPS on DM end

P Class FSJ1 jumpers (1/4") continued

P Class FSJ1 jumpers (1/4")			
	N Male (NM)	N Male R/A (NR)	N Female (NF)
NEX10 Male (XM)	F1A-XMNM-xx-P F1A-XMNM-xx-P-W1 ²	F1A-XMNR-xx-P F1A-XMNR-xx-P-W1 ²	F1A-XMNF-xx-P F1A-XMNF-xx-P-W1 ²
NEX10 Male R/A (XR)	F1A-XRNM-xx-P	F1A-XRNR-xx-P	F1A-XRNF-xx-P
NEX10 Push-Pull (XMP)	F1A-XMPNM-xx-P	F1A-XMPNR-xx-P	F1A-XMPNF-xx-P
4.3-10 Male (HM)	F1A-HMNM-xx-P F1A-HMNM-xx-P-W1 ³	F1A-HMNR-xx-P F1A-HMNR-xx-P-W1 ³	F1A-HMNF-xx-P F1A-HMNF-xx-P-W1 ³
4.3-10 Male R/A (HR)	F1A-HRNM-xx-P	F1A-HRNR-xx-P	F1A-HRNF-xx-P
4.3-10 Female (HF)	F1A-HFNM-xx-P	F1A-HFNR-xx-P	F1A-HFNF-xx-P
4.3-10 Push-Pull (HMP)	F1A-HMPNM-xx-P	F1A-HMPNR-xx-P	F1A-HMPNF-xx-P
7/16DIN Male (DM)	F1A-NMDM-xx-P F1A-NMDM-xx-P-W1 ⁴	F1A-NRDM-xx-P F1A-NRDM-xx-P-W1 ⁴	F1A-NFDM-xx-P F1A-NFDM-xx-P-W1 ⁴
7/16DIN Male R/A (DR)	F1A-NMDR-xx-P	F1A-NRDR-xx-P	F1A-NFDR-xx-P
7/16DIN Female (DF)	F1A-NMDF-xx-P	F1A-NRDF-xx-P	F1A-NFDF-xx-P
N Male (NM)	F1A-NMNM-xx-P	F1A-NMNR-xx-P	F1A-NMNF-xx-P
N Male R/A (NR)	F1A-NMNR-xx-P	F1A-NRNR-xx-P	F1A-NFNR-xx-P
N Female (NF)	F1A-NMNF-xx-P	F1A-NFNR-xx-P	F1A-NFNF-xx-P

Note: Replace xx with the length in feet or meters.

Example: 10 feet = F1A-XMNM-10-P

Example: 10 meters = F1A-XMNM-10M-P

¹For WPS on both ends

²For WPS on XM end

³For WPS on HM end

⁴For WPS on DM end

P Class FSJ2 jumpers (3/8")

P Class FSJ2 jumpers (3/8")					
	4.3-10 Male (HM)	4.3-10 Male R/A (HR)	7/16 DIN Male (DM)	7/16 DIN Male R/A (DR)	7/16 DIN Female (DF)
4.3-10 Male (HM)	F2A-HMHR-xx-P F2A-HMHR-xx-P-W1 ¹	F2A-HMHR-xx-P F2A-HMHR-xx-P-W1 ²	F2A-HMDM-xx-P F2A-HMDM-xx-P-W1 ²	F1A-XMDR-xx-P F1A-XMDR-xx-P-W1 ²	F2A-HMDF-xx-P F2A-HMDF-xx-P-W1 ²
4.3-10 Male R/A (HR)	F2A-HMHR-xx-P F2A-HMHR-xx-P-W1 ²	F2A-HRHR-xx-P	F2A-HRDM-xx-P	F2A-HRDR-xx-P	F2A-HRDF-xx-P
7/16 DIN Male (DM)	F2A-HMDM-xx-P F2A-HMDM-xx-P-W1 ²	F2A-HRDM-xx-P	F2A-DMDM-xx-P	F2A-DMDR-xx-P	F2A-DMDF-xx-P
7/16 DIN Male R/A (DR)	F2A-HMDR-xx-P F2A-HMDR-xx-P-W1 ²	F2A-HRDR-xx-P	F2A-DMDR-xx-P	F2A-DRDR-xx-P	F2A-DFDR-xx-P
7/16 DIN Female (DF)	F2A-HMDF-xx-P F2A-HMDF-xx-P-W1 ²	F2A-HRDF-xx-P	F2A-DMDF-xx-P	F2A-DFDR-xx-P	F2A-DFDF-xx-P
N Male (NM)	F2A-HMNM-xx-P F2A-HMNM-xx-P-W1 ²	F2A-HRNM-xx-P	F2A-NMDM-xx-P	F2A-NMDR-xx-P	F2A-NMDF-xx-P
N Male R/A (NR)	F2A-HMNR-xx-P F2A-HMNR-xx-P-W1 ²	F2A-HRNR-xx-P	F2A-NRDM-xx-P	F2A-NRDR-xx-P	F2A-NRDF-xx-P
N Female (NF)	F2A-HMNF-xx-P F2A-HMNF-xx-P-W1 ²	F2A-HRNF-xx-P	F2A-NFDM-xx-P	F2A-NFDR-xx-P	F2A-NFDF-xx-P

Note: Replace xx with the length in feet or meters.

Example: 10 feet = F2A-HMNM-10-P

Example: 10 meters = F2A-HMNM-10-P

¹For WPS on both ends

²For WPS on XM end

P Class FSJ2 jumpers (3/8") continued

P Class FSJ2 jumpers (3/8")			
	N Male (NM)	N Male R/A (NR)	N Female (NF)
4.3-10 Male (HM)	F2A-HMNM-xx-P F2A-HMNM-xx-P-W1 ²	F2A-HMNR-xx-P F2A-HMNR-xx-P-W1 ²	F2A-HMNF-xx-P F2A-HMNF-xx-P-W1 ²
4.3-10 Male R/A (HR)	F2A-HRNM-xx-P	F2A-HRNR-xx-P	F2A-HRNF-xx-P
7/16 DIN Male (DM)	F2A-NMDM-xx-P	F2A-NRDM-xx-P	F2A-NFDM-xx-P
7/16 DIN Male R/A (DR)	F2A-NMDR-xx-P	F2A-NRDR-xx-P	F2A-NFDR-xx-P
7/16 DIN Female (DF)	F2A-NMDF-xx-P	F2A-NRDF-xx-P	F2A-NFDF-xx-P
N Male (NM)	F2A-NMNM-xx-P	F2A-NMNR-xx-P	F2A-NMNF-xx-P
N Male R/A (NR)	F2A-NMNR-xx-P	F2A-NRNR-xx-P	F2A-NFNR-xx-P
N Female (NF)	F2A-NMNF-xx-P	F2A-NFNR-xx-P	F2A-NFNF-xx-P

Note: Replace xx with the length in feet or meters.

Example: 10 feet = F2A-HMNM-10-P

Example: 10 meters = F2A-HMNM-10-P

¹For WPS on both ends

²For WPS on XM end

Small-Cell Coax Jumpers

Features





- Superflexibility and small size (1" bend radius and 1/4" or 3/8" cable size)
- Compatible interfaces: NEX10, 4.3-10 and older

Description	Length (feet/inches/meters)	Material ID
FSJ1-50A SureFlex Jumpers - 1/4" cable size		
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached 4.3-10 female connector	1 ft	1 ft F1-XRHF-1-TMB
	34.0 in	F1-XRHF-34N-TMB
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached N Type female connector	1 ft	F1-XRNF-1-TMB
	34.0 in	F1-XRNF-34N-TMB
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached 4.3-10 male right angle connector	34.5 in	F1-XRHR-34N5-TMB
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached Type N male right angle connector	1 ft	F1-XRNR-1-TMB
	34.0 in	F1-XRNR-34N-TMB
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached NEX10 male right angle connector	1 ft	F1-XR XR-1-TMB
	2 ft	F1-XR XR-2-TMB
	18.0 in	F1-XR XR-18N-TMB
	34.0 in	F1-XR XR-34N-TMB
	34.5 in	F1-XR XR-34N5-TMB
End 1: Factory attached NEX10 male connector to End 2: Factory attached NEX10 male right angle connector	2 ft	F1-XM XR-2-TMB
	18.0 in	F1-XM XR-18N-TMB
FSJ1-50A SureFlex Jumpers - 1/4" cable size		
End 1: Factory attached 4.3-10 male connector to End 2: Factory attached 4.3-10 male right angle connector	0.31 m	F2A-HMHR-M31-TMB
	1.5 m	F2A-HMHR-1M5-TMB
End 1: Factory attached 4.3-10 male right angle connector to End 2: Factory attached 7/16DIN male connector	0.31 m	F2A-HRDM-M31-TMB
	0.51 m	F2A-HRDM-M51-TMB
	1.5 m	F2A-HRDM-1M5-TMB
End 1: Factory attached 4.3-10 male connector to End 2: Factory attached 7/16DIN male connector	3 ft	F2A-HMDM-3-TMB
End 1: Factory attached Type N male connector to End 2: Factory attached Type N male connector	62 m	F2R-NMNM-62M-TMB
	72 m	F2R-NMNM-72M-TMB
Additional lengths are available; contact your CommScope sales representative for details.		

Small-Cell Coax Jumpers Kits

Description	Jumper	Jumper Length (inches)	Jumper Quantity	Material ID
FSJ1-50A SureFlex Jumper Kits - 1/4" cable size				
Kit includes total of 6 jumpers				
End 1: Factory attached 4.3-10 female connector to End 2: Factory attached 4.3-10 male right angle connector	F1A-HFHR-11N-P	11.0"	1	F1A-SM6-KT
	F1A-HFHR-13N-P	13.0"	1	
	F1A-HFHR-15N-P	15.0"	1	
	F1A-HFHR-16N-P	16.0"	1	
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached 4.3-10 female connector	F1A-XRHF-19N-P	19.0"	1	
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached 4.3-10 male right angle connector	F1A-XRHR-18N-P	18.0"	1	
FSJ1-50A SureFlex Jumper Kits - 1/4" cable size				
Kit includes total of 14 jumpers				
End 1: Factory attached 4.3-10 female connector to End 2: Factory attached 4.3-10 male right angle connector	F1A-HFHR-11N-P	11.0"	1	F1A-SM14-KT
	F1A-HFHR-13N-P	13.0"	1	
	F1A-HFHR-15N-P	15.0"	1	
	F1A-HFHR-16N-P	16.0"	1	
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached 4.3-10 female connector	F1A-XRHF-19N-P	19.0"	2	
End 1: Factory attached NEX10 male right angle connector to End 2: Factory attached 4.3-10 male right angle connector	F1A-XRHR-16N-P	16.0"	1	
	F1A-XRHR-18N-P	18.0"	3	
	F1A-XRHR-19N-P	19.0"	1	
	F1A-XRHR-20N-P	20.0"	2	
	F1A-XRHR-21N-P	21.0"	1	

HELIAX Small Cell Corrugated Cable Products Portfolio

Part number		Description	Rating
FSJ1-50A		1/4" Superflexible Low Density Foam, Black PE Jacket	Standard
FSJ2-50		3/8" Superflexible Foam, Black PE Jacket	Standard
LDF1-50		1/4" Low Density Foam, black PE Jacket	Standard
LDF2-50		3/8" Low Density Foam, black PE Jacket	Standard

FSJ1-50A SureFlex® Small Cell Jumper

Description	Cable Length (feet)	Part Number	Description	Cable Length (feet)	Part Number
NEX10 Male to NEX10 Male	2'	F1A-XXXM-2-P	NEX10 Male to 4.3-10 Male Right Angle	2'	F1A-XXMR-2-P
	4'	F1A-XXXM-4-P		4'	F1A-XXMR-4-P
	6'	F1A-XXXM-6-P		6'	F1A-XXMR-6-P
	8'	F1A-XXXM-8-P		8'	F1A-XXMR-8-P
	10'	F1A-XXXM-10-P		10'	F1A-XXMR-10-P
	12'	F1A-XXXM-12-P		12'	F1A-XXMR-12-P
	14'	F1A-XXXM-14-P		14'	F1A-XXMR-14-P
	16'	F1A-XXXM-16-P		16'	F1A-XXMR-16-P
	18'	F1A-XXXM-18-P		18'	F1A-XXMR-18-P
	20'	F1A-XXXM-20-P		20'	F1A-XXMR-20-P
	22'	F1A-XXXM-22-P		22'	F1A-XXMR-22-P
NEX10 Male to 4.3-10 Male	2'	F1A-XXHM-2-P			
	4'	F1A-XXHM-4-P			
	6'	F1A-XXHM-6-P			
	8'	F1A-XXHM-8-P			
	10'	F1A-XXHM-10-P			
	12'	F1A-XXHM-12-P			
	14'	F1A-XXHM-14-P			
	16'	F1A-XXHM-16-P			
	18'	F1A-XXHM-18-P			
	20'	F1A-XXHM-20-P			
	22'	F1A-XXHM-22-P			

FSJ2-50 SureFlex® Small Cell Jumper

Description	Cable Length (feet)	Part Number
4.3-10 Male to 4.3-10 Male	3'	F2A-HMHM-3-AT
	5'	F2A-HMHM-5-AT
	7'	F2A-HMHM-7-AT
	10'	F2A-HMHM-10-AT
	15'	F2A-HMHM-15-AT
	18'	F2A-HMHM-18-AT
	20'	F2A-HMHM-20-AT
	25'	F2A-HMHM-25-AT
NEX10 Male to 4.3-10 Male	4'	F2A-HMHM-4-ATW1
	6'	F2A-HMHM-6-ATW1
	8'	F2A-HMHM-8-ATW1
	12'	F2A-HMHM-12-ATW1
	14'	F2A-HMHM-14-ATW1
	16'	F2A-HMHM-16-ATW1
	18'	F2A-HMHM-18-ATW1
	20'	F2A-HMHM-20-ATW1
	25'	F2A-HMHM-25-ATW1
	30'	F2A-HMHM-30-ATW1
	35'	F2A-HMHM-35-ATW1
	40'	F2A-HMHM-40-ATW1

Description	Cable Length (feet)	Part Number
4.3-10 Male to 4.3-10 Male Right Angle	3'	F2A-HMHR-3-AT
	5'	F2A-HMHR-5-AT
	7'	F2A-HMHR-7-AT
	10'	F2A-HMHR-10-AT
	15'	F2A-HMHR-15-AT
	20'	F2A-HMHR-20-AT
	25'	F2A-HMHR-25-AT
	4.3-10 Male Right Angle and 4.3-10 Male Right Angle	3'
5'		F2A-HRHR-5-AT
7'		F2A-HRHR-7-AT
10'		F2A-HRHR-10-AT
15'		F2A-HRHR-15-AT
20'		F2A-HRHR-20-AT
25'		F2A-HRHR-25-AT

Sureflex Cable Assemblies with new LSF2 cable

Description	Cable Length (feet)	Part Number	Cable Length (meters)	Part Number
Sureflex Cable Assemblies with new LSF2 cable				
4.3-10 Male to 4.3-10 Male	3'	LS2-HMHM-3-D	1M	LS2-HMHM-1M-D
	5'	LS2-HMHM-5-D	3M	LS2-HMHM-3M-D
	7'	LS2-HMHM-7-D	5M	LS2-HMHM-5M-D
	10'	LS2-HMHM-10-D	7M	LS2-HMHM-7M-D
	15'	LS2-HMHM-15-D	10M	LS2-HMHM-10M-D
	20'	LS2-HMHM-20-D	15M	LS2-HMHM-15M-D
	25'	LS2-HMHM-25-D	20M	LS2-HMHM-20M-D
	30'	LS2-HMHM-30-D	25M	LS2-HMHM-25M-D
	35'	LS2-HMHM-35-D	30M	LS2-HMHM-30M-D
	40'	LS2-HMHM-40-D	35M	LS2-HMHM-35M-D
	45'	LS2-HMHM-45-D	40M	LS2-HMHM-40M-D

4.3-10 Cable Products Portfolio

Connectors (Field Fit)

CommScope PN	Description
F4HM-D	CONNECTOR: FSJ4-50 4.3-10 STRAIGHT MALE
F4HM-S	CONNECTOR: FSJ4-50 4.3-10 STRAIGHT MALE
F4HF-S	CONNECTOR: FSJ4-50 4.3-10 STRAIGHT FEMALE
F4HMP-D	CONNECTOR: LDF4-50 4.3-10 Male push/pull
L4HM-D	CONNECTOR: LDF4-50 4.3-10 STRAIGHT MALE
L4HM-S	CONNECTOR: LDF4-50 4.3-10 STRAIGHT MALE
L4HF-S	CONNECTOR: LDF4-50 4.3-10 STRAIGHT FEMALE
L4HMP-D	CONNECTOR: LDF4-50 4.3-10 Male push/pull
L4HR-D	RIGHT ANGLE 4.3-10
A5HF-D	CONNECTOR: AVA5-50 & AVA5-50FX 4.3-10 STRAIGHT FEMALE
A5HM-D	CONNECTOR: AVA5-50 & AVA5-50FX 4.3-10 STRAIGHT MALE
L5HM-S	CONNECTOR: LDF5 4.3-10 STRAIGHT MALE
L5HF-S	CONNECTOR: LDF5 4.3-10 STRAIGHT FEMALE
78EZHM	CONNECTOR: LDF5 4.3-10 STRAIGHT MALE
78EZHF	CONNECTOR: LDF5 4.3-10 STRAIGHT FEMALE
A6HF-S	CONNECTOR: AVA6-50 4.3-10 STRAIGHT FEMALE
A6HM-S	CONNECTOR: AVA6-50 4.3-10 STRAIGHT MALE
A7HF-S	CONNECTOR: AVA7-50 4.3-10 STRAIGHT FEMALE
A7HM-S	CONNECTOR: AVA7-50 4.3-10 STRAIGHT MALE
F1HM-D	CONNECTOR: FSJ1-50A 4.3-10 STRAIGHT MALE
F1HR-D	CONNECTOR: FSJ1-50A 4.3-10 MALE RIGHT ANGLE
F2HM-D	CONNECTOR: FSJ2-50 4.3-10 STRAIGHT
L1HM-D	CONNECTOR: LDF1-50 4.3-10 STRAIGHT MALE
L2HM-D	CONNECTOR: LDF2-50 4.3-10 STRAIGHT MALE

Tools and Accessories

CommScope PN	Description
SMALL-M-CAPKIT	Male End Cap Assembly for 4.3-10 series and 4.1-9.5 Din, work torque 5-8N/M
SMALL-CAPKIT	Female End Cap Assembly for 4.3-10 series and 4.1-9.5 Din, work torque 5-8N/M
TT-4310	Low-Profile polymer 4.3-10 tightening/torque tool for small spaces
TW-4310	Standard torque wrench 4.3-10
CPT-L4-D	Automated cable preparation tool (compatible with L4HM-D connectors)
CPT-F4-D	Automated cable preparation tool (compatible with F4HM-D connectors)
MCPT-A5-D	Manual cable preparation tool (compatible with A5HF-D, A5HM-D)
F4310-GT	Installation Tool for F4HM-S and F4HF-S connectors
L4310-GT	Installation Tool for L4HM-S and L4HF-S connectors
MCPT-114158-S	Manual cable preparation tool (compatible with A6HF/HM-D & A7HF/HM-D)
CPT-F1-D	Automated cable preparation tool (compatible with F1HM-D & F1HR-D connectors)
CPT-L1-D	Automated cable preparation tool (compatible with L1HM-D & F1HR-D connectors)
CPT-F2-D	Automated cable preparation tool (compatible with F2HM-D connectors)

4.3-10 Cable Products Portfolio

Bulk Cables

Part Number	Nominal Size	Loss per 100ft @ 3.5GHz, dB	Loss per 100ft @ 5GHz, dB	Bend Radius, inches
FSJ1-50A	1/4"	11.83	15.77	1
FSJ2-50	3/8"	8.23	11.10	1
LDF1-50	1/4"	8.38	11.27	1.5
LDF2-50	3/8"	7.12	9.59	1.6
LSF2-50	3/8"	7.089	8.828	1

Adapters

Part Number	Description
TA-DFDF	ADAPTOR: 7/16 DIN FEMALE TO 7/16 DIN FEMALE
TA-DFDR	ADAPTOR: 7/16 DIN FEMALE R/A TO 7/16 DIN MALE
TA-DFHM	ADAPTOR: 7/16 DIN FEMALE TO 4.3-10 MALE
TA-DMDF	ADAPTOR: 7/16 DIN MALE TO 7/16 DIN FEMALE
TA-DMDM	ADAPTOR: 7/16 DIN MALE TO 7/16 DIN MALE
TA-DMHF	ADAPTOR: 7/16 DIN MALE TO 4.3-10 FEMALE
TA-DMHM	ADAPTOR: 7/16 DIN MALE TO 4.3-10 MALE
TA-DMHM-K	ADAPTOR: 7/16 DIN MALE TO 4.3-10 MALE, HAND TORQUE
TA-DMKF	ADAPTOR: 7/16 DIN MALE TO 4.1/9.5 FEMALE
TA-DMKM	ADAPTOR: 7/16 DIN MALE TO 4.1/9.5 MALE
TA-NFDF	ADAPTOR: N FEMALE TO 7/16 DIN FEMALE
TA-NFDM	ADAPTOR: N MALE TO 7/16 DIN MALE
TA-NFHF	ADAPTOR: N FEMALE TO 4.3-10 FEMALE
TA-NFHM	ADAPTOR: N FEMALE TO 4.3-10 MALE
TA-NFKF	ADAPTOR: N FEMALE TO 4.1/9.5 FEMALE
TA-NFKM	ADAPTOR: N FEMALE TO 4.1/9.5 MALE
TA-NFNF	ADAPTOR: N FEMALE TO N FEMALE
TA-NMDF	ADAPTOR: N MALE TO 7/16 DIN FEMALE
TA-NMDM	ADAPTOR: N MALE TO 7/16 DIN MALE
TA-NMHF	ADAPTOR: N MALE TO 4.3-10 FEMALE
TA-NMNM	ADAPTOR: N MALE TO N MALE
TA-NRNF	ADAPTOR: N MALE R/A TO N FEMALE
TA-HFHR	ADAPTOR: 4.3-10 FEMALE TO 4.3-10 MALE R/A

4.3-10 Field-installable connector

Part Number	Cable Prep Tool for 4310
F1HM-D	CPT-F1-D
F2HM-D	CPT-F2-D
L1HM-D	CPT-L1-D
L2HM-D	N/A



HELIAX® Connectors

Model Number Nomenclature Chart

HELIAX® Connectors



Cable Type

F4	FSJ4-50B SUPERFLEX 1/2"
L4	LDF4-50A STANDARD FLEX 1/2"
A5	AVA5-50, AVA5-50FX
AL6, A6	FIRE RETARDANT LDF4
78	7/8" COAX
114	1 1/4" COAX
158	1 5/8" COAX
F1	FSJ1-50A SUPERFLEX 1/4"
F2	FSJ2-50 SUPERFLEX 3/8"
L1	LDF1-50 STANDARD FLEX 1/4"
L2	LDF2-50 STANDARD FLEX 3/8"

Wildcard A

EZ	EZ FIT
B	BULKHEAD FEMALE
P	PLATED (OLD NOMENCLATURE)
T	TRI-METAL PLATED (OLD NOMENCLATURE)

Connector Type

HM	4.3-10 STRAIGHT MALE
HR	4.3-10 RIGHT ANGLE MALE
DM	7-16 DIN STRAIGHT MALE
DR	7-16 DIN RIGHT ANGLE MALE
KM	4.1-9.5 DIN STRAIGHT MALE
HF	4.3-10 STRAIGHT FEMALE
DF	7-16 DIN STRAIGHT FEMALE
HMP	4.3-10 PUSH PULL

Wildcard B

-D	D-CLASS
-PSA OR -PS	POSITIVE STOP
-C	CAPTIVATED CENTER CONTACT
-H	HEX COUPLING NUT
-HC	HEX COUPLING NUT CAPTIVATED CENTER CONTACT
-BH	BULKHEAD FEMALE
-BHC	BULKHEAD FEMALE CAPTIVATED CENTER CONTACT





50 Ohm Connectors

Cable Size	Cable Type	Connector Type	Connector Part Number	Cable Prep Tool Used	Coupling Nut Torque Tool Used
50 Ohm Connectors					
1/2"	Standard; LDF4-50A	4.3-10 Male	L4HM-D	CPT-L4-D	TW-4310
		7-16 DIN Male	L4TDM-PSA	CPT-12U	244377
		7-16 DIN Female	L4TDF-PSA		244377
		7-16 DIN Male, Right Angle	L4DR-PS		244377
		N Male	L4TNM-PSA		244379
		N Female	L4TNF-PSA		244379
	Standard; FSJ4-50B	4.3-10 Male	F4HM-D		CPT-F4-D
		7-16 DIN Male	F4PDMV2-C	CPT-F4B	244377
		7-16 DIN Female	F4PDF-C		244377
		7-16 DIN Male, Right Angle	F4DR-C		244377
		N Male	F4PNMV2-HC		244379
		N Female	F4PNF-C		244379
		4.3-10 Male	F4HM-S		F4310-GT
		4.3-10 Female	F4HF-S	F4310-GT	TW-4310
	4.3-10 Male push / pull	F4HMP-D	CPT-F4-D	NA	
5/8"	Standard; LDF4.5-50	7-16 DIN Male	L4.5PDM-RC	CPT-L45RC	244377
		N Male	L4.5PNM-RC		244379
		N Female	L4.5PNF-RC		244379
		4.3-10 Male	L4HM-S	L4310-GT	TW-4310
		4.3-10 Female	L4HF-S	L4310-GT	TW-4310
		4.3-10 Female	L4HF-D	CPT-L4-D	TW-4310
		4.3-10 Male push / pull	L4HMP-D	CPT-L4-D	NA

50 Ohm Connectors *continued*

Cable Size	Cable Type	Connector Type	Connector Part Number	Cable Prep Tool Used	Coupling Nut Torque Tool Used	
50 Ohm Connectors continued						
7/8"	AVA5-50 or AVA5-50FX	4.3-10 Male	A5HM-D	MCPT-A5-D	TW-4310	
		4.3-10 Female	A5HF-D		TW-4310	
			7-16 DIN Male	AL5DM-PSA	CPT-78U	244377
			7-16 DIN Female	AL5DF-PSA		244377
			N Male	AL5NM-PSA		244379
			N Female	AL5NF-PSA		244379
			7-16 DIN Female	78EZDF	A5FX-EZPT	244377
			7-16 DIN Male	78EZDM		244377
			N Male	78EZNM		244379
			N Female	78EZNF		244379
	LDF5-50A Note: this cable is obsolete	4.3-10 Male	L5HM-S	MCPT-L5-S	TW-4310	
		4.3-10 Female	L5HF-S	MCPT-L5-S	TW-4310	
	1-1/4"	Standard; AVA6-50	7-16 DIN Male	AL6DM-PSA	CPT-114U	244377
			7-16 DIN Female	AL6DF-PSA	CPT-114U	244377
4.3-10 Female			A6HF-S	MCPT-114158-S	TW-4310	
4.3-10 Male			A6HM-S	MCPT-114158-S	TW-4310	
7-16 DIN Male			114EZDM	A6-EZPT	244377	
7-16 DIN Female			114EZDF	A6-EZPT	244377	
N type Male			114EZNM	A6-EZPT	244379	
N type Female			114EZNF	A6-EZPT	244379	
1-5/8"	Standard AVA7-50 section	7-16 DIN Male	AL7DM-PSA	CPT-158U	244377	
		7-16 DIN Female	AL7DF-PSA		244377	
		N Male	AL7NM-PSA		244379	
		N Female	AL7NF-PSA		244379	
		4.3-10 Female	A7HF-S	MCPT-114158-S	TW-4310	
		4.3-10 Male	A7HM-S	MCPT-114158-S	TW-4310	
		7-16 DIN Male	158EZDM	A7-EZPT	244377	
		7-16 DIN Female	158EZDF	A7-EZPT	244377	
		N type Male	158EZNM	A7-EZPT	244379	
		N type Female	158EZNF	A7-EZPT	244379	

50 Ohm Connectors *continued*

Cable Size	Cable Type	Image	Connector Type	Connector Part Number	Cable Prep Tool Used	Coupling Nut Torque Tool Used
50 Ohm Connectors continued						
1/4"	Superflexible; FSJ1-50A		4.3-10 Male	F1HM-D	NA	NA
			4.3-10 Male Right Angle	F1HR-D		
			4.3-10 Male Push-Pull	F1HMP-D		
	7-16 DIN Male	F1TDM-C				
	7-16 DIN Female	F1TDF				
	Standard; LDF1-50		4.3-10 Male	L1HM-D		
7-16 DIN Male			L1TDM-PL			
7-16 DIN Female			L1TDF-PL			
3/8"	Superflexible; FSJ2-50		4.3-10 Male	F2HM-D		
			7-16 DIN Male	F2TDM-PL		
			7-16 DIN Female	F2PDF-C		
			7-16 DIN Male, Right Angle	F2HM-D		
	Standard; LDF2-50		4.3-10 Male	L2HM-D		
			7-16 DIN Male	L2TDM-PL		
			7-16 DIN Female	L2TDF-PL		
			7-16 DIN Male, Right Angle	L2PDR-C		

Tools

Description	Used with Cable Type	Connector Type	Part Number
Manual Cable Preparation Tools Prepares coaxial cable for connector attachment	1/2" cable; FSJ4-50B	F4-V2 Series connectors only	MCPT-1412
	1/2" cable; LDF4-50A	LDF4 Positive Stop® (-PS & -PSA) only	MCPT-L4
	7/8" cable; AVA5-50/AVA5-50FX	A5 Series connectors only	MCPT-A5-D
	1 1/4" cable AVA6-50	A6 -S eries	MCPT-114158-S
	1 5/8" cable AVA7-50	A7 -S eries	MCPT-114158-S
	1/2" cable; FSJ4-50B	4.3-10 Male	F4310-GT
	1/2" cable; FSJ4-50B	4.3-10 Female	F4310-GT
	1/2" cable; LDF4-50A	4.3-10 Male	L4310-GT
	1/2" cable; LDF4-50A	4.3-10 Female	L4310-GT
Automated Cable Preparation Tools Used with standard drill to prepare coaxial cable for connector attachment	1/2" cable; LDF4-50A	LDF4 Positive Stop (-PS & -PSA) only	CPT-12U
		LDF4 Connectors ending in -D only	CPT-L4-D
	1/2" cable; FSJ4-50B	F4-V2 Series connectors only	CPT-F4B
		FSJ4 Connectors ending in -D only	CPT-F4-D
	1-1/4" cable; AVA6-50	114 EZfit Series connectors only	A6-EZPT
1-5/8" cable; AVA7-50	158 EZfit Series connectors only	A7-EZPT	
EZfit® Manual Cable Preparation Tools	7/8" cable; AVA5-50	78 EZfit Series connectors only	78-HPT
EZfit Automated Cable Preparation Tools	7/8" cable; AVA5-50/AVA5-50FX	EZfit Series connectors only	A5FX-EZPT
	1-1/4" cable; AVA6-50	114 EZfit Series connectors only	A6-EZPT
	1-5/8" cable; AVA7-50	158 EZfit Series connectors only	A7-EZPT



Manual Tool (MCPT-1412)



Automatic Tool (CPT)



Tightening Tool (TT-4310)



Torque Wrench (TW-4310)

Description	Used with Connector Type	Part Number
Connector Torque Tools		
Coupling nut tightening tool	SureFlex 4.3-10 straight male jumpers	TT-4310
Torque wrenches	4.3-10 connectors	TW-4310
	7-16 DIN connectors	244377
	Type N connectors	244379

HELIAX® Surge Arrestor/Bias Tee

Model Number Nomenclature Chart

HELIAX® Surge Arrestor/Bias Tee

APTDC - DFDM - DB

Arrestor/Bias Tee Indicator

ABT	ANDREW BIAS TEE
APT	ANDREW SURGE ARRESTOR (T-SERIES)
APG	ANDREW SURGE ARRESTOR (GAS-TUBE)
ADCB	ANDREW DC BLOCK
APTDC	ANDREW SUREGE ARRESTOR (T-SERIES DC PASSING)

Interfaces Examples:

BDFDM	BULKHEAD DIN FEMALE/DIN MALE
BDFDF	BULKHEAD DIN FEMALE/DIN FEMALE
DFDF	DIN FEMALE/DIN FEMALE
DFDM	DIN FEMALE/DIN MALE
NFNM	N FEMALE/N MALE
NFNF	N FEMALE/N FEMALE
BNFNM	BULKHEAD N FEMALE/N MALE
BNFNF	BULKHEAD N FEMALE/N FEMALE

Wildcard A

DB	DUAL BAND
DBT	DUAL BAND (CYLINDRICAL BODY)
DBW	DUAL BAND (WIDE)
090	90V GASTUBE
350	350V GASTUBE
ADBA	PASSES AISG 2.1 & DC

Replacement Blade Kits

Description	Part Number
Replacement Blade Kits For cable preparation tools	
Use with CPT-F4B & CPT-F4-D only	CPT-BKSF4
Use with CPT-12U & CPT-L4-D only	CPT-BK12U
Use with A5FX-EZPT only	BK-A6A7EZPT-JC
Use with A6-EZPT only	BK-A6A7EZPT-JC
Use with A7-EZPT only	BK-A6A7EZPT-JC

Protective Cap Kits



SMALL-CAPKIT

Description	Part Number
Protective Cap Kits Male interface, mates on female connector	
4.3-10 female end cap	SMALL-CAPKIT
7-16 DIN female end cap	DF-CAPKIT
4.3-10 Male end cap	SMALL-M-CAPKIT
Nex10 female end cap	NEX10-CAPKIT

Surge Arrestors

Description	Part Number
Dual Band Bias Tee Surge Arrestors	
Dual Band Bias Tee Surge Arrestor, 698–960 MHz and 1710–2170 MHz, with interface types DIN Female and DIN Male	ABT-DFDM-ADBH
Dual Band Bias Tee Surge Arrestor (Cylindrical), 698-2700 MHz, with interface types N Female and N Male	ABT-NFNM-DB
Arrestor Plus® LTE Band Quarterwave Surge Arrestor	
DIN-F Bulkhead/DIN-M	APTDC-BDFDM-DB
Quarterwave Surge Arrestor 806-2170MHz, with interface types 4.3-10 Female and 4.3-10 Male	APG-HFHM
Quarterwave Surge Arrestor 695-2700MHz, with interface types 4.3-10 Female and 4.3-10 Male	APT-HFHM

Grounding Kits

Description	Grounding Lead Wire	Lug	Part Number
Grounding Kits			
For 1/4" and 3/8" Coaxial Cable	24"	Attached	223158-2
For 1/2" Coaxial Cable	24"	Attached	SG12-06B2A
	48"	Field Attach	SG12-12B2U
For 7/8" Coaxial Cable	24"	Attached	SG78-06B2A
	48"	Field Attach	SG78-12B2U
For 1-1/4" Coaxial Cable	24"	Attached	SG114-06B2A
	48"	Field Attach	SG114-12B2U
For 1-5/8" Coaxial Cable	24"	Attached	SG158-06B2A
	48"	Field Attach	SG158-12B2U
Universal Grounding Kit For 1/2" through 1-5/8" corrugated and smoothwall coaxial cable, elliptical waveguide 63 through 180 and FiberFeed Hybrid cables			UG12158-15B4-T
Small Universal Grounding Kit			GK-SUNV



New Adjustable Cable Hangers and PIM-Guard Accessories

Today's cell tower tops are extremely complex. One tower may have hundreds of jumper cables for multiple active and passive components. Evolving antenna technology also complicates site architecture. The difficulty in properly installing new cables into this crowded environment increases dramatically. SnapStak® Plus steel and SnapTak PIM-guard adjustable hangers along with PIM-guard accessories simplify tower-top cable management and installation, while ensuring exceptional performance and durability.

Adjustable PIM-Guard Hangers	Cable range, min to max, mm (in)
Adjustable Cable Hangers	
SSH-47	4.0–7.0 (0.157–0.176)
SSH-710	7.1–10.0 (0.280–0.394)
SSH-1014	10.1–14.0 (0.398–0.551)
SSH-1416	14.1–16.0 (0.555–0.630)
Adjustable Steel Hangers	Cable range, min to max, mm (in)
SSH-XL	36-51 (1.4-2.0)
SSH-L	25-36 (1.0-1.4)
SSH-M	14-25 (0.6-1.0)



SnapTak Adjustable PIM-Guard Hangers



SnapStak Plus Adjustable Steel Hangers

New PIM-Guard Accessories

Part Number	Description
PIM-Guard Accessories	
SA-1C	PIM-free composite snap-in adapter, 1 position, kit of 10
CT-460-100	Cable tie, heat stabilized, weather resistant, 460 mm length, 100 pcs
CB-12-50	Cable banding, bulk, 1/2-inch x 50-foot reel
CB-LH-25	Locking heads for cable banding number CB-12-50, 25 pcs
CB-IT	Installation tool for cable banding CB-12-50



PIM-Free Adapter



Cable Tie



Cable Banding



Locking Heads for cable banding



Installation Tool for cable banding

Hangers

Description	Part Number
Butterfly Hanger (10 pieces)	
For 7/8" coaxial cable and elliptical waveguide 85 and 90	42396A-5
For 1/2" or 3/8" coaxial cable and elliptical waveguide 180, 220, and 240	43211A
For 1 1/4" coaxial cable	423964-1
For 1 5/8" coaxial cable and EW-64 wave guide	423964-2
Single click-on hanger kit (1 each)	
Click-on hanger kits with hardware (1 ea)	
1/2" Single click-on hanger kits with hardware 3 stack (1 ea)	SHK-12-3-P
7/8" Single click-on hanger kits with hardware 3 stack (1 ea)	SHK-78-3-P
1 1/4" Single click-on hanger kits with hardware 3 stack (1 ea)	SHK-114-3-P
1 5/8" Single click-on hanger kits with hardware 3 stack (1 ea)	SHK-158-3-P
SnapStak® Hanger (10 pieces)	
For 1/2" coaxial cable	SSH-12
For 7/8" coaxial cable	SSH-78
For 1-1/4" coaxial cable	SSH-114
For 1-5/8" coaxial cable	SSH-158
For 36-51mm Hybrid power and coaxial cables	SSH-XL



Single Block Hanger (BHS-114)



SnapStak Hanger (SSH-12)



Butterfly Hanger (42396A-5)

Installation Accessories and Tools

Description	Part Number
Adapters	
Angle, standard 3/8" tapped hole	31768A
Angle, universal snap-in, 3/4" hole	UA-3
3-way snap-in, stand-off for 2"-3" round members	STS3-23
3-way, stand-off for 1.5"-3" round members	TTS3-153
SnapSeal™ Entry Cushions	
4 holes for 1/2" coaxial cable	SEC-412
3 holes for 7/8" coaxial cable	SEC-378
1 hole for 1-5/8" coaxial cable	SEC-1158
Lace-Up Hoisting Grips	
For 7/8" coaxial cable, elliptical waveguide 77, and HELIAX FiberFeed Hybrid cable	19256B
For 1-5/8" coaxial cable and elliptical waveguide 44, 52, and 63	24312A
For 1/2" coaxial cable	43094
for 1 1/4" coaxial cable	29961
Support Hoisting Grips	
For 1/2" cable	L4SGRIP
For 7/8" coaxial cable	L5SGRIP
For 1-1/4" coaxial cable	L6SGRIP
For 1-5/8" coaxial cable	L7SGRIP
Tape and Weatherproofing Kit	
Black self-fusing tape, 15 feet	FT-TB
Weatherproofing kit for connectors and splice Includes (6) 2-1/2" butyl rubber rolls and (2) 3/4" and (1) 2" PVC tape rolls	221213



SnapSeal Entry Cushions (SEC-378)



Lace-Up Hoisting Grip (19256B)



Support Hoisting Grip (L5SGRIP)



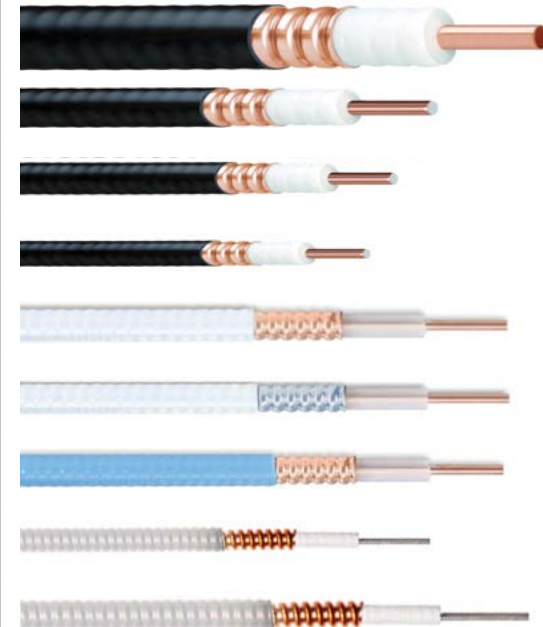
Weatherproofing Kit (221213)

HELIAX RF – Coaxial Cable

CommScope offers a full portfolio Indoor Riser & Plenum, and Outdoor Cables

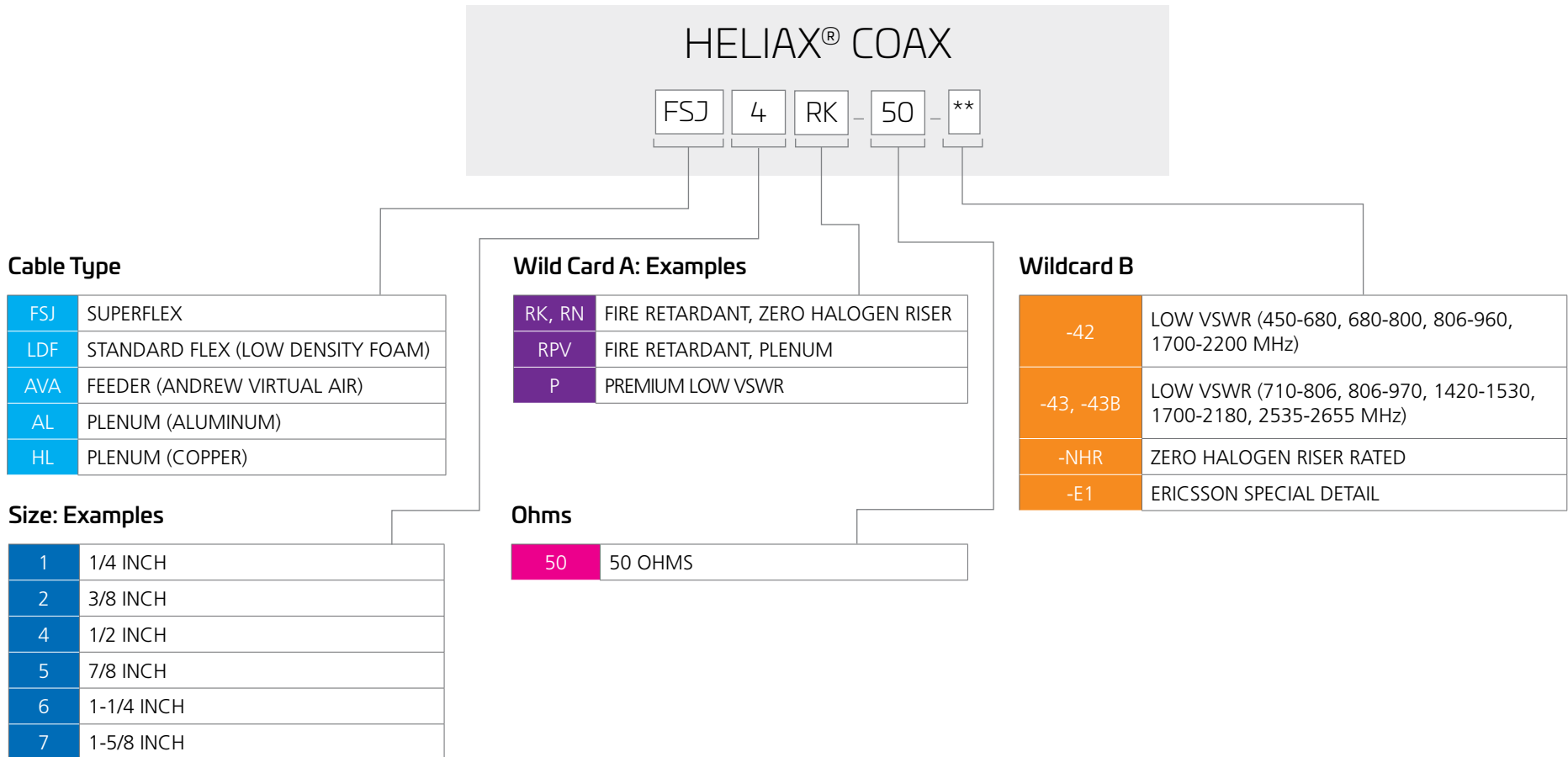
- Riser identified with RK nomenclature and ETL CMR Rating
- Plenum identified with RPV nomenclature and ETL CMP Rating
- CommScope connectors- Compatible with Indoor and Outdoor cables
- AVA5-50FX, and AVA5RK-50FX are not available in North America.

Description	Part Number
Feeders 7/8" - 1 5/8"	AVA5-50, AVA5RK-50, AVA5-50FX, AVA5RK-50FX, AVA6-50, AVA6-50, AVA6RK-50, AVA7-50, AVA7RK-50
1/2" Feeder/Jumper	LDF4-50A, LDF4RK-50A, FSJ4-50B, FSJ4RK-50B
3/8" Feeder/Jumper	LDF2RK-50, LSF2-50, FSJ2-50, FSJ2RK-50
1/4" Feeder/Jumper	LDF1-50, LDF1RK-50, FSJ1-50A, FSJ1RK-50B
1/2" Plenum	HL4RPV-50 (Copper) *Available with black and gray jacketing and qualified in the CBRS and LAA bands
1/2" Plenum	AL4RPV-50 (Aluminum) *Available with red jacketing and qualified in the CBRS and LAA bands
1/2" Plenum	HL4RPV-50B (Blue Jacket)
1/4" Plenum	PTS1-50-P (Plenum)
3/8" Plenum	PTS2-50-P (Plenum)



HELIAX® COAX

Model Number Nomenclature Chart



LDF4-50A

HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket

Cable manufactured between 1971–Present



Cable size	Connector	Connector status	Replacement	Status	Grounding kit prep tool	Grounding kit tool replacement blade kit	Automated tool	Automated tool blade kits	Manual tool	Blade kits	Flare tool
1/2" LDF4-50A LDF4RK-50A 520092302/00	L4PDM-C	Obsolete	L4TDM-PSA	Active	GKT-L4SG	GBK-SG1278	CPT-L4ARC1 works with listed connectors	CPT-BKS1 CPT-BK12U works with listed connectors	MCPT-L4 works with listed connectors	MCPT-BK4 works with listed connectors	224363 works with listed connectors
	L4TDM-PS	Obsolete	L4TDM-PSA	Active							
	L4TDF-PS	Obsolete	L4TDF-PSA	Active							
	L4PDR-C	Obsolete	L4DR-PS	Active							
	L4PDF-BHC	Active	NA	NA							
	L4TNF-PSA	Active	NA	NA							
	L4TNM-PSA	Active	NA	NA							
	L4HM-D	Active	NA	NA							
	L4HMP-D	Active	NA	NA							
	L4HM-S	Active	NA	NA							
	L4HF-S	Active	NA	NA							
							CPT-L4-D		NA	NA	NA
							NA	NA	L4310-GT	NA	NA
							NA	NA		NA	NA

Additional notes

- Note only connectors listed in the connector or replacement columns will accommodate the cable
- Positive stop connectors require no special tools or torque wrenches, to tighten the positive connector turn the back nut, not the front body**
- Blade kits are available for the tools contact CommScope
- Positive stop connectors will not accommodate smooth wall aluminium cable

Part Number	Installation Bulletin	Part Number	Installation Bulletin
L4PDM-C	101801	L4DR-PS	237903
L4TDM-PS	7615905	CPT-L4ARC1	237562
L4TDF-PS	237903	MCPT-L4	237647
L4PDR-C	101629	L4HM-D	7719049
L4PDF-BHC	101627	L4HMP-D	7769948
L4TDM-PSA	7615905	CPT-L4-D	237562
L4TDF-PSA	7615905		

FSJ4-50B

FSJ4-50B, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket

Cable manufactured between 1978–Present



Cable size	Connector	Connector status	Automated tool	Manual tool	Automated tool blade kits	Manual blade kits
1/2" FSJ4-50B FSJ4RK-50B	F4DR-C	Active	CPT-F4B works with listed connectors	MCPT-1412 works with listed connectors	CPT-BKSF4 works with listed connectors	209874 works with listed connectors
	F4NR-HC	Active				
	F4PDF-C	Active				
	F4PDMV2-C	Active				
	F4PNMV2-HC	Active				
	F4PNF-C	Active	CPT-F4-D	NA	NA	NA
	F4HM-D	Active				
	F4HMP-D	Active	NA	F4310-GT	NA	NA
	F4HM-S	Active	NA	F4310-GT	NA	NA
	F4HF-S	Active	NA	F4310-GT	NA	NA

Additional notes

- Note only connectors listed in the connector column will accommodate the cable
- Blade kits are available for the tools contact CommScope
- Check for installation video online
Manual tool: <https://www.youtube.com/watch?v=FhDM-nyXYJk>
Automated tool: <https://www.youtube.com/watch?v=ZxBZD2gFOG4>

Part Number	Installation Bulletin	Part Number	Installation Bulletin
F4DR-C	237556	CPT-F4B	Bulletin Online
F4NR-HC	237556	MCPT-1412	237703
F4PDF-C	101597	Special publication	SP50262-A
F4PDMV2	237556	F4HM-D	7718500
F4PNMV2-HC	237554	F4HMP-D	7769947
F4PNF-C	237270	CPT-F4-D	237562

AVA5-50

AVA5-50, HELIAX® Andrew Virtual Air™ Coaxial Cable, corrugated copper, 7/8 in, black PE jacket

Cable manufactured between 2004–Present



Cable size	Connector	Connector status	Grounding kit prep tool	Grounding kit tool replacement blade kit	Automated tool	Automated tool replacement blade kits	Manual tool
7/8" AVA5-50 AVA5RK-50	78EZDF	Active	GKT-78SG	GBK-SG1278	A5FX-EZPT works with listed connectors	BK-A5FXEZPT-JC	78-HPT works with listed connectors
	78EZDM	Active					
	78EZNM	Active					
	78EZNF	Active					
	A5HF-D	Active			NA	NA	MCPT-A5-D
	A5HM-D	Active					
	A5DF-D	Active					
	A5DM-D	Active					

Additional notes

- Note only connectors listed in the connector column will accommodate the cable
- Check for installation video online
Manual and Automated tools: https://www.youtube.com/watch?v=5_NIDslWBal
- **Positive stop connectors will not accommodate AVA5-50FX cable**
- AL5 or L5 connectors will not accommodate AVA5-50FX cable
- **EZFIT connectors require a torque wrench—hold the back nut and turn the front**

Part Number	Installation Bulletin
78EZDF	7593458 and 7580829
78EZDM	7593458 and 7580830
78EZNM	7593458 and 7580831
78EZNF	7593458 and 7580832
A5DF-D	7711012
A5DM-D	7711012

AVA6-50

AVA6-50, HELIAX® Andrew Virtual Air™ Coaxial Cable, corrugated copper, 1-1/4 in, black PE jacket

Premium cable

Cable manufactured between 2004–Present



Cable size	Connector	Connector status	Grounding kit prep tool	Grounding kit tool replacement blade kit	Automated tool	Automated tool blade kits	Manual tool	
1 1/4" AVA6-50 AVA6RK	AL6DF-PSA	Active	GKT-114SG	GBK-SG114158	CPT-114U works with listed connectors	CPT-BK6 works with listed connectors	NA	
	AL6DM-PSA	Active			A6-EZPT works with listed connectors	BK-A6A7EZPT-JC		
	114EZDF	Active			NA	NA		MCPT-114158-S
	114EZDM	Active						
	114EZNM	Active						
	114EZNH	Active						
	A6HM-S	Active						
	A6HF-S	Active						

Additional notes

- Note only connectors listed in the connector column will accommodate the cable
- Positive stop connectors require no special tools or torque wrenches, to tighten the positive connector turn the back nut, not the front body
- EZFIT connectors require a torque wrench—hold the back nut and turn the front

Part Number	Installation Bulletin
AL6DF-PSA	7604922
AL6DM-PSA	7604922
CPT-114U	SP50262-A
114EZDF	7593458 and 7580829
114EZDM	7593458 and 7580829
114EZNM	7593458 and 7580829
114EZNH	7593458 and 7580829
A6DF-S	7717148
A6DM-S	7717148
MCPT-A6A7-S	7717172

AVA7-50

AVA7-50, HELIAX® Andrew Virtual Air™ Coaxial Cable, corrugated copper, 1-5/8 in, black PE jacket

Premium cable

Cable manufactured between 2004–Present



Cable size	Connector	Connector status	Grounding kit prep tool	Grounding kit tool replacement blade kit	Automated tool	Automated tool blade kits	Manual tool
1 5/8" AVA7-50 AVA7RK-50	AL7DF-PSA	Active	GKT-158SG	GBK-SG114158	CPT-158U works with listed connectors	CPT-BK7 works with listed connectors	NA
	AL7DM-PSA	Active					
	AL7NM-PSA	Active					
	AL7NF-PSA	Active			A7-EZPT works with listed connectors	BK-A6A7EZPT-JC	
	158EZDF	Active					
	158EZDM	Active					
	158EZNM	Active			NA	NA	
	158EZNF	Active					
	A7HF-S	Active					
A7HM-S	Active	MCPT-114158-S					

Additional notes












- Note only connectors listed in the connector column will accommodate the cable
- Positive stop connectors require no special tools or torque wrenches, to tighten the positive connector turn the back nut, not the front body
- EZFIT connectors require a torque wrench—hold the back nut and turn the front

Part Number	Installation Bulletin	Part Number	Installation Bulletin
AL7DF-PSA	7546530	158EZDM	7593458 and 7580829
AL7DM-PSA	7546530	158EZNM	7593458 and 7580829
AL7NM-PSA	7546530	158EZNF	7593458 and 7580829
AL7NF-PSA	7546530	A7DF-S	7717149
CPT-158U	SP50262-A	A7DM-S	7717149
158EZDF	7593458 and 7580829	MCPT-A6A7-S	7717172

Fire Retardant Cable Products Portfolio

Part number		Description	Rating
AL4RPV-50-500		AL4RPV-50, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated aluminum, 1/2 in, off white PVC jacket, 500 feet	Plenum
AL4RPV-50R-500		AL4RPV-50-500, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated aluminum, 1/2 in, Red 500ft PVC jacket	Plenum
AL4RPV-50-1000-B		AL4RPV-50, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated aluminum, 1/2 in, off white PVC jacket, 1000 feet	Plenum
AL4RPV-50R-1000B		AL4RPV-50R-1000B, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated aluminum, 1/2 in, Red 1000ft PVC jacket	Plenum
520099303/00		Meets Citizens Broadband Radio Service and LAA band requirements	Plenum
AL4RPV-50-3000		AL4RPV-50, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated aluminum, 1/2 in, off white PVC jacket, 3000 feet	Plenum
AL4RPV-50R-3000		AL4RPV-50R-3000, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated aluminum, 1/2 in, Red 3000ft PVC jacket	Plenum
HL4RPV-50		HL4-50, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated copper, 1/2 in, off white PVC jacket	Plenum
52005402/00		Meets Citizens Broadband Radio Service and LAA band requirements	Plenum
HL4RPV-50G		HL4-50, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated copper, 1/2 in, Grey PVC jacket	Plenum
520095802/00		HL4-50, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated copper, 1/2 in, black PVC jacket	Plenum
HL4RPV-50-B		HL4-50A, HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated copper, 1/2 in, blue PVDF jacket	Plenum

HELIAX® Wireless Connector Video links

QR Code	Cable	Connector	QR Code	Cable	Connector
	AL4RPV-50	Positive Stop™ Series Manual Prep Tool		AVA7	Positive Stop™ Series Manual Prep Tool
	FSJ4-50B	F4 Series Version 2 Manual Prep Tool		AVA7	Positive Stop™ Series Manual Prep
	AL4RPV-50	Positive Stop™ Series Automated Prep Tool		FXL-780	EZfit® Series Manual and Automated Prep Tool
	FSJ4-50B	F4 Series Version 2 Automated Prep Tool		AVA7	Positive Stop™ Series Automated Prep Tool
	AVA5	EZfit® Series Manual and Automated Prep Tool		M-LOC Cluster	M-LOC Cluster Connector System Saves Time
				HELIAX Wireless Connector	HELIAX Wireless Connector

Related Resources

[4.3-10 Web Landing Page](#)

[HELIAX® Cable, Connector, and Tool Matrix](#)

[D-CLASS Jumpers Brochure](#)

[4.3-10 Series Ecosystem Brochure](#)

[4.3-10 Video \(YouTube\)](#)

[Cluster Connector Technology Video - CommScope videos](#)

[Taking a closer look at Cluster Connector Technology - CommScope videos](#)

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