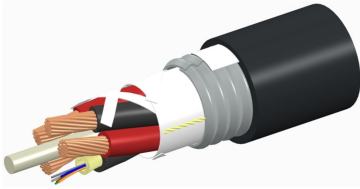


HFC-4SM-212-SPE



HELIAX® Hybrid Cable with steel armor

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Hybrid cable, copper and fiber
Product Brand	HELIAX®

General Specifications

Application	Remote radio head
Armor Type	Corrugated steel
Cable Type	Wireless feeder
Conductors, quantity	2
Construction Type	Armored
Fiber Short Description	RFF – 12AWG
Fiber Type, quantity	4
Fibers per Subunit, quantity	2
Inner Shield (Tape) Material	Corrugated steel
Jacket Color	Black
Outer Shield (Tape) Material	PE
Strength Members	Glass reinforced plastic rod
Subunit, quantity	2
Total Fiber Count	4
Water Blocking Method	Water blocking tape(s) Water blocking threads

Dimensions

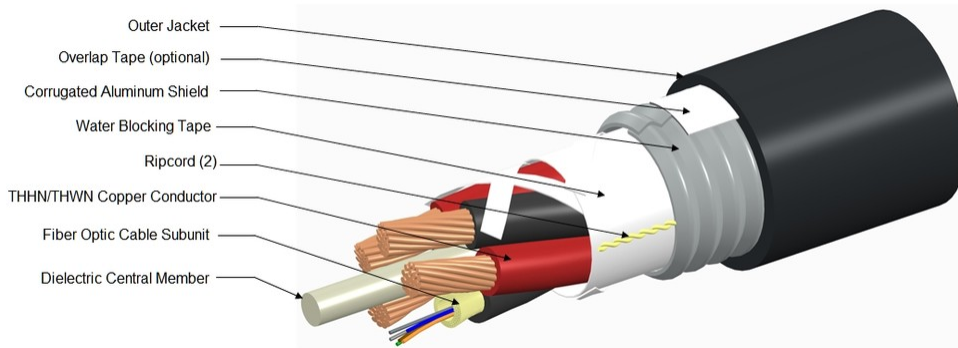
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Buffer Tube/Subunit Diameter	3.048 mm 0.12 in
Diameter Over Jacket	12.954 mm 0.51 in
Conductor Gauge	12 AWG

Electrical Specifications

dc Resistance Note	Maximum value based on a standard condition of 20 °C (68 °F)
dc Resistance, maximum	5.413 ohms/km 1.65 ohms/kft

Representative Image



Material Specifications

Ripcord Material	Para-aramid synthetic fiber
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Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded	259.08 mm 10.2 in
Minimum Bend Radius, multiple bends, unloaded	129.54 mm 5.1 in
Minimum Bend Radius, single bend, unloaded	91.44 mm 3.6 in
Tensile Load, long term, maximum	467.063 N 105 lbf
Tensile Load, short term, maximum	1,556.877 N 350 lbf
Compression	2.25 kg/mm 126 lb/in
Compression Test Method	FOTP-41
Flex	25 cycles
Flex Test Method	FOTP-104
Impact	2.17 ft lb 2.942 N-m
Impact Test Method	FOTP-25
Twist	10 cycles

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Twist Test Method FOTP-85

Optical Specifications

Fiber Type G.657.A2/B2 | G.657.A2/B2

Environmental Specifications

Installation temperature -30 °C to +70 °C (-22 °F to +158 °F)

Operating Temperature -40 °C to +80 °C (-40 °F to +176 °F)

Storage Temperature -40 °C to +80 °C (-40 °F to +176 °F)

Cable Qualification Standards ANSI/ICEA S-87-640 | Telcordia GR-20 | Telcordia GR-409

Environmental Space Wireless installation

Packaging and Weights

Cable weight 208.343 kg/km | 140 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



Included Products

CS-8G-MP	-	Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)
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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable