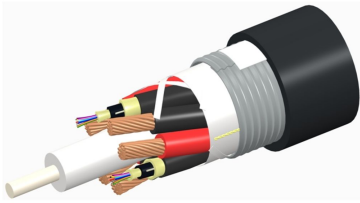


HFC-12SM-612-SPE



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	6
Construction Type	Armored
Fiber Short Description	RFF – 12AWG
Inner Shield (Tape) Material	Corrugated steel
Jacket Color	Black
Outer Shield (Tape) Material	PE
Strength Members	Glass reinforced plastic rod
Subunit, quantity	6
Fibers per Subunit, quantity	12
Total Fiber Count	12
Water Blocking Method	Water blocking tape(s) Water blocking threads

Dimensions

Buffer Tube/Subunit Diameter	3.048 mm 0.12 in
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Diameter Over Jacket 20.574 mm | 0.81 in

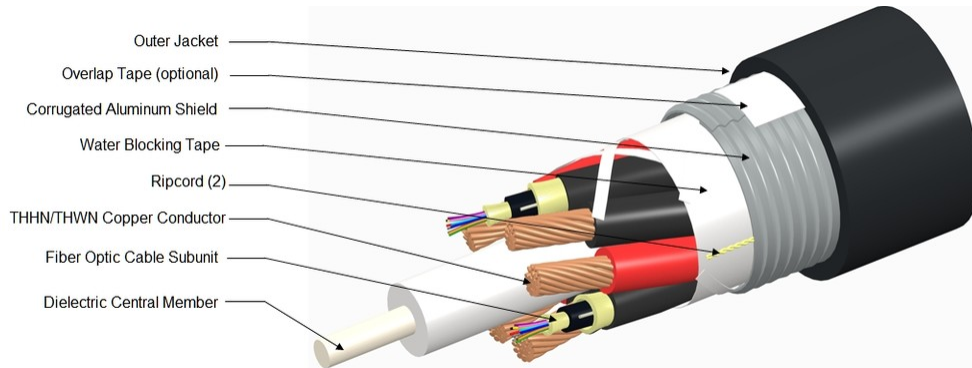
Conductor Gauge 12 AWG

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

Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded 414.02 mm | 16.3 in

Minimum Bend Radius, multiple bends, unloaded 205.74 mm | 8.1 in

Minimum Bend Radius, single bend, unloaded 144.78 mm | 5.7 in

Tensile Load, long term, maximum 800.68 N | 180 lbf

Tensile Load, short term, maximum 2,668.932 N | 600 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

Twist Test Method FOTP-85

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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 513.417 kg/km | 345 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)

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable