

PowerShift Metro® Hybrid Cable with aluminum armor, 4X12AWG Power Conductors, 144-fiber

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

Portfolio

CommScope®

Product Type

Hybrid cable, copper and fiber

Product Brand

PowerShift Metro®

General Specifications

Application

Power and Fiber Distribution Cable

Cable Type

Wireless feeder

Conductors, quantity

4

Construction Type

Shielded

Fiber Short Description

RFF – 12AWG

Inner Shield (Tape) Material

Corrugated aluminum

Jacket Color

Black with red stripe – power indicator

Strength Members

Glass reinforced plastic rod

Subunit, quantity

12

Fibers per Subunit, quantity

12

Total Fiber Count

144

Water Blocking Method

Water blocking tape(s) | Water blocking threads

Dimensions

Buffer Tube/Subunit Diameter

2.54 mm | 0.1 in

Diameter Over Jacket

23.419 mm | 0.922 in

Conductor Gauge

12 AWG

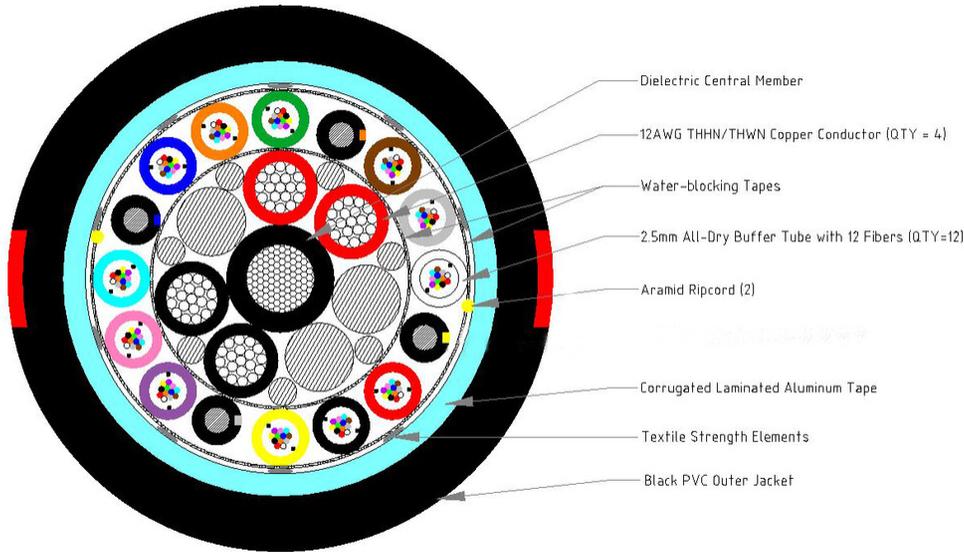
Electrical Specifications

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
Electrical Safety Standard	UL 1277, Type TC-ER-OF

Representative Image



Material Specifications

Ripcord Material	Para-aramid synthetic fiber
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Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded	436.88 mm 17.2 in
Minimum Bend Radius, multiple bends, unloaded	279.4 mm 11 in
Minimum Bend Radius, single bend, unloaded	279.4 mm 11 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

760221276 | HTC-144SM-DT-412-418-APVA

Optical Specifications

Fiber Type G.652.D and G.657.A1

Environmental Specifications

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

Operating Temperature -40 °C to +70 °C (-40 °F to +158 °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-3173 | Telcordia GR-421 | UL 1277

Environmental Space Wireless installation

Jacket UV Resistance UV stabilized

Packaging and Weights

Cable weight 619.076 kg/km | 416 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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