

Product Specifications

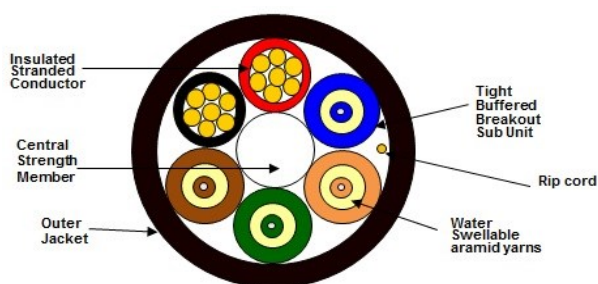
Part No: 40-1200412NGB-216

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Revision #: 02

40-Series 4 Fiber Tight Buffered Breakout + 16/2C Hybrid Cable

Cable Cross Section



(Representation of a standard 4 fiber construction)

Scope

This document establishes the specification requirements for a rugged outdoor hybrid design with 4 tight buffered/breakout fibers and 2 conductors with an overall flame retardant jacket.

Applications

Outdoors in duct or aerial lashed

Applicable Documents & Standards

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- GR-409-CORE
- Compliant with ANSI/TIA-568-C.3 standard

Overall Construction Details

- Tight Buffered Fiber
Dimension: 900µm, Nominal
- Tight Buffer/Sub Unit Color Code:
As per TIA/EIA-598 standard or per customer requirement
- Dielectric Central Strength Member:
Epoxy Glass Rod (up-coated as required per construction)
- Sub Unit Construction:
Water swellable aramid yarns are pulled in with tight buffered fibers under a sub-unit jacket.
Material: Thermoplastic Elastomeric Material
Dimension: 2.4 mm (0.095 in.), nominal
- Insulated Conductors:
Two 16awg stranded bare copper conductors
Insulated with polyethylene
Dimension: 2.4 mm (0.095 in.) nominal
Color: Black and Red
- Cable Core:
The sub-units and conductors are stranded around the CSM, using reverse oscillation.
- Overall Sheath: UV resistant black flame retardant Polyvinyl Chloride
A ripcord applied under the overall sheath.
Nominal Overall Dimension: 0.380 in. (9.7 mm)
- Surface Print:
REMFO 40-SERIES FIBER 4-50/125 OM3 BIF 10GIG + 2/C
16AWG OUTDOOR REMEE PRODUCTS CORP. MM/YY
(Month & Year of Manufacture), MADE IN THE USA (Lot #)
+ Sequential Footage Marking

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Huge Selection and Personal Service

Remee
WIRE & CABLE

Engineered With You In Mind

Fiber Characteristics	
Fiber Type	OM3 BIF Multimode*
Maximum Attenuation @ 850/1300 nm	3.0/1.0 dB/km
LED Performance (Overfilled Launch Bandwidth)	$\geq 1500/500$ MHz-km @ 850/1300
Laser EMB Performance @ 850nm*	≥ 2000 MHz-km
Core Diameter, nominal	50 ± 2.5 μ m
Cladding Diameter	125.0 ± 1.0 μ m
Primary Coating Diameter	242 ± 7 μ m
Cladding Non-circularity	< 0.7 %
Core-Clad Concentricity	≤ 1.0 μ m
Macro Bend Loss	Induced Attenuation
Mandrel Radius 7.5mm/2 turns	$\leq 0.2/0.5$ dB@850/1300 nm
Mandrel Radius 15mm/2 turns	$\leq 0.1/0.3$ dB@850/1300 nm
Mandrel Radius 37.5mm/100 turns	$\leq 0.05/0.15$ dB@850/1300 nm
Zero Dispersion Wavelength	1295-1340 nm
Maximum Zero Dispersion Slope	0.105 ps/nm ² -km
Numerical Aperture	0.20 ± 0.015
Group Refractive Index @ 850/1300 nm	1.483/1.478
Proof Test	100 kpsi
*Complies with or exceeds IEC 60793-2-10, TIA-492AAAD Optical Fiber Specification. Guaranteed Gigabit Ethernet Distance of 550/300mtr@850/1300nm for 10Gb/s per IEEE802.3.	

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Remee Wire & Cable

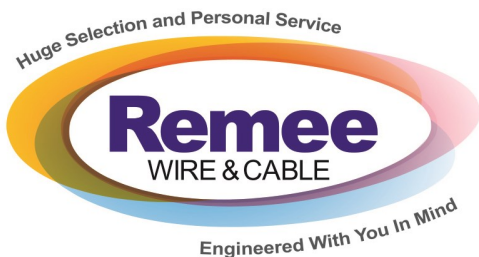
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Mechanical & Environmental Performance

- Maximum Tensile Load
Installation : 2700N / 600lbf
Long Term : 600N / 135lbf
- Minimum Bending Radius
Loaded : 20 x Diameter
Unloaded : 10 x Diameter
- Crush Resistance
100 N/cm
- Impact Resistance (min.)
25 Impacts
- Flexing: $\pm 90^\circ$ (min.)
25 Cycles
- Temperature Rating
Operation : -40°C to $+75^\circ\text{C}$
Installation : 0°C to $+75^\circ\text{C}$
Storage : -40°C to $+75^\circ\text{C}$
- Nominal weight
76 lbs/1000 ft

Warranty Information

All warranty information can be viewed at www.remee.com. This product is RoHS compliant and is directive 2002/95/EC. It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice.

Preparation for Shipment

The cable shall be packaged to preclude the inducement of damage due to handling and transportation, and shall be in accordance with the best commercial practices available. Shipping containers shall be constructed as to eliminate any possible damage to the cables due to shipment.

Note: While Remee Products Corp. has made every reasonable effort to ensure the accuracy of the information in this document, Remee Products Corp. does not guarantee that it is error-free, nor does Remee Products Corp. make any other representation, warranty, or guarantee that the information is accurate, correct, reliable or current. Remee Products Corp. reserves the right to make any adjustments to the information contained herein at any time without notice. Remee Products Corp. expressly disclaims all implied warranties regarding the information contained herein, including but not limited to, any implied warranties of merchantability or fitness for particular purpose. The dimensions in this documents are for reference purposes only and are subject to change without notice.

Spec Approval (Custom Designs Only)

Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order; this item may be non-cancellable and non-returnable.

Signature: _____ Date: _____