

Product Specifications

Armored Indoor/Outdoor Riser Fiber Optic Cable

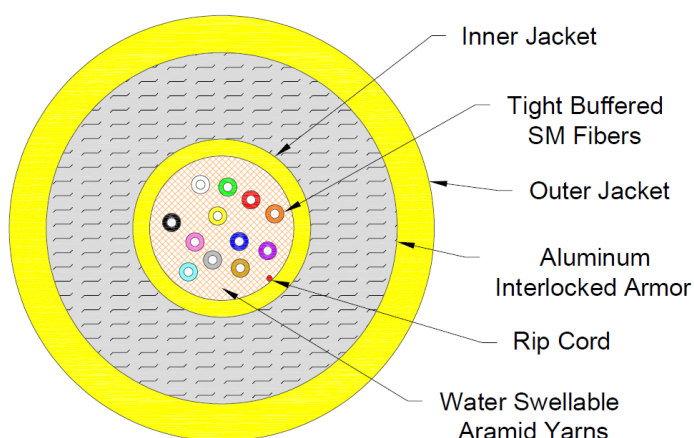
Spec Part No: FOC12SBIORA

Issue Date: 11/28/2024

Revision #: 00

Remex11-Series Interlock Armor I/O Tight Buffer Distribution Riser Rated Fiber Optic Cable

Cable Cross Section



Scope

This document establishes the specification requirements for a 12 (twelve) fiber indoor/outdoor distribution armored fiber optic cable. This cable construction consists of a distribution tight-buffer design with an interlocking armor and a riser rated jacket.

Applications

Outdoors direct burial, aerial lashed, indoors in the riser space and tray installations

Applicable Documents

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- UL 1666
- Compliant with ANSI/TIA-568-C.3 standard
- ICEA S-87-640 Standard

Cable Construction Details

- Tight Buffered Fiber
Dimension: 900µm, Nominal
- Tight Buffer Color Code:
As per TIA/EIA-598 standard or per customer requirement
- Cable Strength:
Water swellable aramid yarns are pulled in with tight-buffered fibers under the inner sheath.
- Inner Sheath: UV resistant riser rated polyvinyl chloride
- Inner Sheath Print:
REMFO 11-SERIES FIBER OPTIC CABLE 12-SM OS2 G.657.A1
BIF INDOOR/OUTDOOR REMEE PRODUCTS CORP. OFNR
C(ETL)US MADE IN USA MM/YY (LOT #) SEQ FT
- Armor: Aluminum interlocking armor
- Overall Sheath: UV resistant riser rated polyvinyl chloride
- Outer Sheath Print:
REMEX 11-SERIES FIBER OPTIC CABLE 12-SM OS2 IN-
DOOR/OUTDOOR REMEE PRODUCTS CORP. OFCR C(ETL)
US, MADE IN USA MM/YY (LOT #) SEQ FT

Codes & Listings

- C(ETL)US
- OFNR
- FT-4 Flame Rating

All warranty information can be viewed at WWW.REMEE.COM

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TABLE 1 Part Numbers, Nominal Cable Dimensions & Weights				
Description	Fiber Optic Cable Only		Fiber Optic Cable with Armor & Jacket	
Spec PN	FOC12SBIOR		FOC12SBIORA	
Remee PN	11-012-76B-AXNOOF		REMEX111276BYIALA	
Number of Fibers	Cable OD w/o Armor in (mm)	Weight w/o Armor lb/1000ft (kg/km)	Cable OD with Armor in (mm)	Weight With Armor lb/1000ft (kg/km)
12	0.260 (6.6)	26 (39)	0.597 (15.2)	134 (199)

**Cables printed in meters will have a "-MR" suffix on the part number.*

TABLE 2 Available Put-up and Length		
Designation	Put-Up	Length
M1	Reel	1,000 Ft
B2	Reel	2,000 Ft
B3	Reel	2,500 Ft
B5	Reel	5,000 Ft

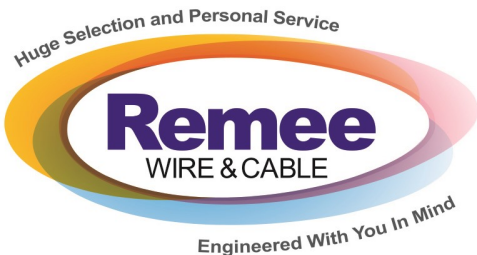
TABLE 3 Jacket Color	
Designation	Color
B	Black
O	Blue
Y	Yellow
Z	Orange
A	Aqua
M	Magenta

TABLE 4 76B Fiber Characteristics	
Fiber Type	SM*
Maximum Attenuation @ 1310/1550nm	0.40/0.30 dB/km **
Cladding Diameter	125.0 ± 0.7 µm
Maximum Core/Clad Concentricity Error	0.5 µm
Maximum Cladding Non-circularity	0.7 µm
Primary Coating Diameter	242 ± 7 µm
Cabled Cutoff Wavelength	<1260nm
Mode Field Diameter	9.0 ± 0.4µm @1310nm 10.1 ± 0.5µm @1550nm
Temperature Dependence	≤0.05dB/km (-60°C to 85°C)
Zero Dispersion Slope	≤0.092ps/nm ² -km
Attenuation with Bending 1 Turn on a Mandrel Radius of 10mm@1550/1625nm	≤0.75/1.5dB
Attenuation with Bending 10 Turns on a Mandrel Radius of 15mm@1550/1625nm	≤0.25/1.0dB
Maximum PMD Link Design Value	0.06ps/√km
Group Refractive Index @ 1310/1550nm	1.4676/1.468
Proof Test	100 kpsi

*According to ITU G.652d & G.657.A1
**Measured attenuation on shipping reels will not exceed the nominal values by 0.75dB/km

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Mechanical & Environmental Performance

Cable Without Armor

- Maximum Tensile Load
Installation : 2700N/600lbf

Long Term : 600N/135lbf
- Crush Resistance
100 N/cm
- Impact Resistance (min.)
25 Impacts
- Flexing $\pm 90^\circ$ (min.)
25 Cycles
- Minimum Bending Radius
Loaded: 20 x Diameter
Unloaded: 10 x Diameter
- Temperature Rating
Operation : -20°C to +85°C
Installation : 0°C to +75°C
Storage : -40°C to +85°C

Cable With Armor

- Maximum Tensile Load
600N / 150lbf
- Crush Resistance
1000 N/cm

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. 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. The Remee Wire & Cable warranty is an integral part of this specification. This item may be non-cancelable and non-returnable.

Signature: _____ Date: _____

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