

Product Specifications

Armored Indoor/Outdoor Plenum Fiber Optic Cable

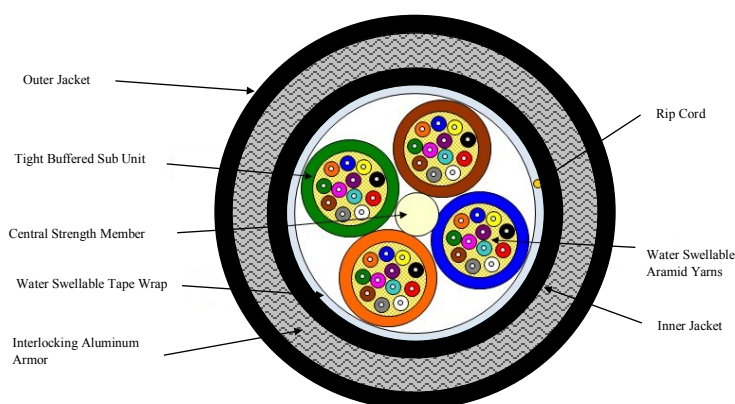
Part No: FOC48SBIOPA

Issue Date: 05/14/2025

Revision #: 01

33-Series Interlock Armor I/O Tight Buffer Distribution Fiber Optic Cable

Cable Cross Section



(Representation of a standard 48 fiber construction)

Scope

This document establishes the specification requirements for a 48 (forty-eight) indoor/outdoor distribution armored fiber optic cable. This cable construction consists of a distribution tight-buffer design with an interlocking armor and a plenum rated jacket.

Applications

Outdoors direct burial, indoors in the plenum space, tray installations

Applicable Documents

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- NFPA262
- Compliant with ANSI/TIA-568-C.3 standard

Cable Construction Details

- Tight Buffered Fiber
Dimension: 900µm, Nominal
- Tight Buffer/Sub Unit Color Code:
As per TIA/EIA-598 standard or per customer requirement
- Sub Unit Construction:
Water swellable aramid yarns are pulled in with tight buffered fibers under a sub-unit jacket.
- Dielectric Central Strength Member:
Epoxy Glass Rod (up-coated as required per construction)
- Cable Core:
Sub-units and fillers are stranded around the CSM, using reverse oscillation.
A water blocking tape is applied over the cabled core with a nominal of 25% overlap.
- Inner Sheath: UV resistant plenum rated PVDF jacket
A ripcord applied under the inner sheath.
- Surface Print: REMFO 33-SERIES FIBER OPTIC CABLE 48
-SM OS2 G.657A1 BIF, INDOOR/OUTDOOR REMEE PRODUCTS CORP. OFNP C(ETL)US, MADE IN USA MM/YY (LOT #) SEQ FT
- Armor: Aluminum interlocking armor
- Overall Sheath: UV resistant plenum rated PVDF jacket
- Surface Print: REMEX 33-SERIES FIBER OPTIC CABLE 48
-SM OS2 G.657A1 BIF, INDOOR/OUTDOOR REMEE PRODUCTS CORP. OFCP C(ETL)US, MADE IN USA MM/YY (LOT #) SEQ FT

Codes & Listings

- C(ETL)US
- OFNP
- NFPA 262, FT-6 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	
Part Number		FOC48SBIOP		FOC48SBIOPA	
Number of Fibers	Number of Fibers per Sub-Unit	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)
48	12	0.609 (15.5)	127 (189)	0.980 (24.9)	341 (508)

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

TABLE 2

Available Put-ups and Lengths

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

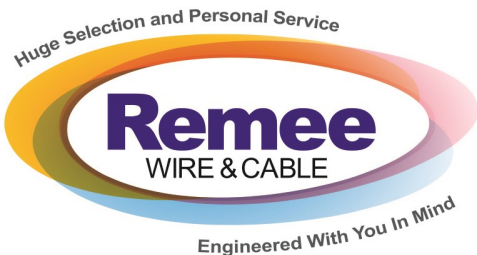
Fiber Type	SM*
Maximum Attenuation @ 1310/1550nm	0.40/0.30 dB/km **
Cladding Diameter	125.0 ± 0.7 µm
Maximum Core/Clad Concentricity Error	0.5 µm
Maximum Cladding Non-circularity	0.7 µm
Primary Coating Diameter	242 ± 7 µm
Cabled Cutoff Wavelength	<1260nm
Mode Field Diameter	9.0 ± 0.4µm @1310nm 10.1 ± 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 / 607lbf
Long Term : 890N / 200lbf
- 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 : -40°C to +150°C
Installation : -30°C to +140°C
Storage : -40°C to +150°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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