

## Product Specifications

### Armored Indoor/Outdoor Plenum Fiber Optic Cable

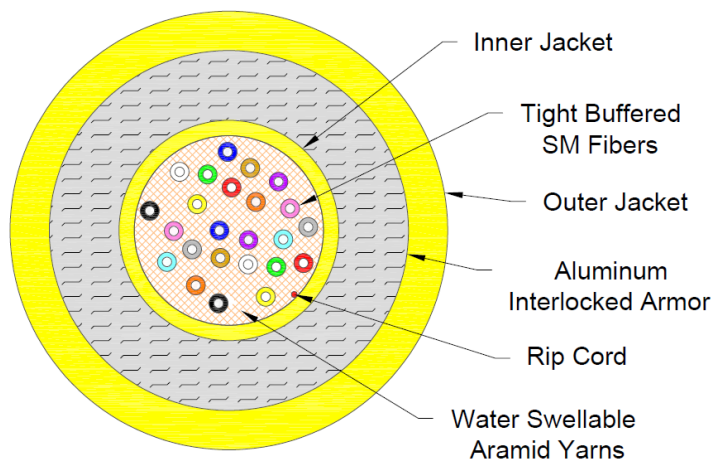
Spec Part No: FOC24SBIOPA

Issue Date: 04/30/2025

Revision #: 00

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

#### Cable Cross Section



#### Scope

This document establishes the specification requirements for a 24 (twenty-four) fiber 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 and tray installations

#### Applicable Documents & Standards

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- NFPA262
- 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 Remguard plenum rated polymer
- Inner Sheath Surface Print: REMFO 33-SERIES FIBER OPTIC CABLE 24-SM OS2 G.657.A1 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 Remguard plenum rated polymer
- Overall Sheath Surface Print: REMEX 33-SERIES FIBER OPTIC CABLE 24-SM OS2 INDOOR/OUTDOOR REMEE PRODUCTS CORP. MM/YY OFCP C(ETL)US MADE IN USA (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](http://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	FOC24SBIOP		FOC24SBIOPA	
Remee PN	33-024-76B-RYNOOP		REMEX332476BYIALR	
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)
24	0.319 (8.1)	43 (64)	0.760 (18.5)	208 (310)

*\*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

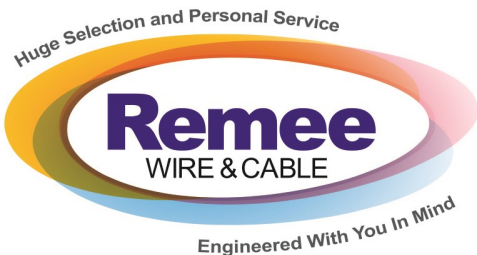
TABLE 3 Jacket Color	
Designation	Color
B	Black
O	Blue
Y	Yellow
Z	Orange
A	Aqua
M	Magenta

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 <sup>2</sup> -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](http://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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