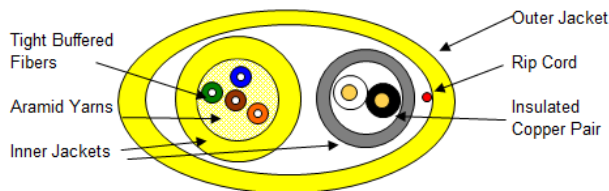


40V-11XX76BAYO-XX/XPDE

Issue Date: 10/04/2021

Revision: 0

40V-Series Composite Cable With Paired Copper Conductors and Singlemode Tight Buffered Fibers in a jacketed Indoor/Outdoor Riser Design



Electrical Details (Pairs)

Maximum Operating Voltage: 300 Volts, rms.
 Nominal Mutual Capacitance: 35.0 pF/ft @ 1 kHz
 Upper Limit Capacitance: 40.0 pF/ft @ 1kHz
 Nominal D.C.R.: 18AWG: 4.71Ω / 1,000 feet @ 20° C
 16AWG: 3.74Ω / 1,000 feet @ 20° C

Scope

This document establishes the specification requirements for a composite cable consisting of stranded bare copper pairs in 16 or 18awg along with (4, 6 or 8 fibers) OS2 tight buffered fibers in two subcomponents; under a flame retardant PVC jacket.

Applications

Premise communication applications in duct, conduit or communication risers. UV stable jacket suitable for use outdoors.

Applicable Documents & Standards

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

Construction Details (Copper Leg)

- Conductor: 16AWG or 18WG stranded bare copper
- Insulation Material: Flame Retardant Polyvinyl Chloride
- Nominal Insulation Thickness: See table on page 2.
- Nominal Insulation Diameter: See table on page 2.
- Pair Color Code: Black & Red, Black & White, Black & Green
- Inner Jacket Color: Gray

Construction Details (Fiber Leg)

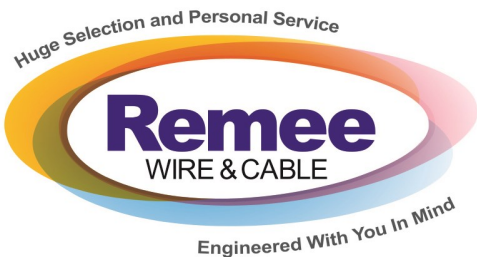
- Tight Buffered Fiber: 4F, 6F or 8F SM (OS2)
- Dimension: 900 μm
- Color Code: Blue, Orange, Green, Brown, Gray, White, Red and Black
- Cable Strength: Water swellable aramid yarns are pulled in with tight-buffered fibers under the jacket.
- Inner Jacket Material: UV resistant flame retardant polyvinyl chloride
- Inner Jacket Color: Yellow
- Surface Print: REMFO 11-SERIES FIBER OPTIC CABLE XX(No. of Fibers)-SM OS2 BIF INDOOR/OUTDOOR REMEE PRODUCTS CORP. MM/YY (Month & Year of Mfg.) OFNR C(ETL)US MADE IN THE USA (Lot #) Sequential Footage Marking

Overall Construction Details

- Construction Type: Copper cable and fiber cable are pulled in under a common jacket.
- Jacket Material: Flame retardant polyvinyl chloride
- Overall Sheath Color: UV-Yellow
- Surface Print: ACTIVATE™ by REMEE 40R-SERIES FIBER OPTIC CABLE XX (No. of Fibers)-SM OS2 BIF (No. of Pairs) (AWG size) OUTDOOR MM/YY (Month & Year of Manufacture) MADE IN THE USA (Lot #) + Sequential Footage Marking

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

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Nominal Cable Dimensions & Weights											
Remeë Products Part Number	Number of Conductors and AWG	D.C.R. Ω /Mft	Nom. Insul. Thick (in)	Nom. Dia. Over Insul. (in.)	Nom Dia. Over Jkt. (Copper, in.)	Number of Fibers	Nom Dia. Over Fiber Jkt. (in.)	Nominal Overall Dimensions in.	Nominal Overall Dimensions mm	Weight lb/1000ft	Weight Kg/km
40V-110476BAYO-16/1PDE	1P 16	4.39	0.016	0.089	0.218	4	0.175	0.456	11.58	60.1	89.4
40V-110476BAYO-18/1PDE	1P 18	5.80	0.012	0.074	0.188	4	0.175	0.423	10.74	52.4	77.9
40V-110676BAYO-16/2PDE	2P 16	4.39	0.016	0.089	0.283	6	0.180	0.524	13.31	90.8	135
40V-110676BAYO-18/2PDE	2P 18	5.80	0.012	0.074	.237	6	0.180	0.477	12.12	76.8	114
40V-110876BAYO-16/3PDE	3P 16	4.39	0.016	0.089	0.319	8	0.185	0.566	14.38	117.2	174
40V-110876BAYO-18/3PDE	3P 18	5.80	0.012	0.074	0.280	8	0.185	0.525	13.34	99.0	147

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

Fiber Type (P/N)	Maximum Attenuation dB/km				Overfill Launch Min Bandwidth (MHz-km)		EMBc (MHz-km)	Gigabit Ethernet Minimum Link Distance (Meters)		10 Gigabit Ethernet Minimum Link Distance (Meters)	
	850 nm	1300 nm	1310 nm	1550 nm	850 nm	1300 nm		850 nm	1300 nm	850 nm	1300 nm
SM OS2 G.652.D/G.657.A1 BIF (76B)*	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000

* G.652d&G.657.A1 (76B) Mandrel Radius of 10mm, 1 turn at 1550nm with an induced attenuation of ≤ 0.50 dB (76U is Corning Ultra)& 76B is Pyrsnian Bendbright)

Measured attenuations on shipping reels will not exceed the nominal values by 0.75 dB/km

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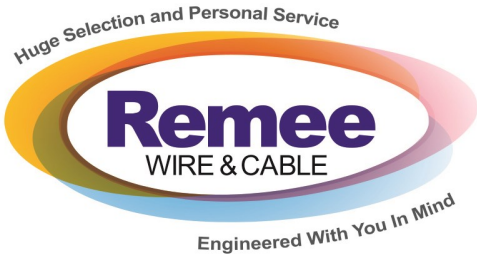
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Mechanical & Environmental Performance

•Maximum Tensile Load

4 Fiber:

Installation : 1405N / 315lbf

Long Term : 455N / 102lbf

6 & 8 Fiber:

Installation : 1610N / 362lbf

Long Term : 535N / 120lbf

•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 $+70^\circ\text{C}$

Installation : -20°C to $+55^\circ\text{C}^*$

Storage : -40°C to $+70^\circ\text{C}$

*Must be the temperature of the cable

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 Remeo Products Corp. has made every reasonable effort to ensure the accuracy of the information in this document. Remeo Products Corp. reserves the right to make any adjustments to the information contained herein at any time without notice. Remeo 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 Remeo Wire & Cable warranty is an integral part of this specification. This item may be non-cancelable and non-returnable.

Signature: _____ Date: _____

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