

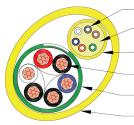
FIBER OPTIC CABLE

Product Specifications

40V-33XX76BRYO-XX/XP

Issue Date: 06/08/2022 Revision: 19

40V-Series Activate[™] PowerPipe[™] Copper/Fiber Hybrid Cable Tight Buffer / Plenum Design



Tight Buffered SM Fibers

Aramid Yarn
Inner Fiber Jacket

Stranded Copper, Insulated
Inner Conductors Jacket
Overall Jacket

Scope

This document establishes the specification requirements for composite cables consisting of a copper twisted-pair cable and a tight buffered distribution fiber optic cable combined under one common UV resistant jacket.

Applications

Premise communication applications indoor or outdoor in duct. Copper pairs suitable for use in all Class 4 fault-manage power systems such as Pulse Power, Digital Electricity and other smart transfer systems.

Applicable Documents & Standards

•TIA/EIA FOTP Standards 455
•Color Coding of Fiber Optic Cables per TIA/EIA-598
•Meets CMP/FT6
•Compliant with ANSI/TIA-568-C.3 standard
•Compliant with NEC CL4 for fault managed power transmission

Construction Details (Copper Leg)

Number of Pairs: See table on page 2.
Conductor: 12, 14, 16, or 18 AWG stranded bare copper
Insulation Material: Remguard[™] Plenum Polymer
Nominal Insulation Thickness: See table on page 2.
Nominal Insulation Diameter: See table on page 2.
Color Code: Black/Red, Black/White, Black/Green, Black/Blue, Black/ Yellow, Black/Brown, Black/Orange and Red/White
Inner Jacket Color: Green with a White stripe

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: Remguard™ Plenum Polymer •Inner Jacket Color: Yellow

•Surface Print:

REMFO 33-SERIES FIBER OPTIC CABLE XX (No. of Fibers)-SM OS2 BIF INDOOR/OUTDOOR REMEE PRODUCTS CORP. MM/YY (Month & Year of Mfg.) OFNP C(ETL)US MADE IN THE USA (Lot #) Sequential Footage MarkingFootage Marking

Overall Construction Details

Construction Type: Copper cable and fiber cable are pulled in parallel with overall plenum jacket.
Jacket Material: Remguard[™] Plenum Polymer
Overall Sheath Color: UV Resistant Yellow
Surface Print:

ACTIVATE™ by REMEE PowerPipe™ 40V-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

Electrical Details (Pairs)

Maximum Operating Voltage: 300 Volts, rms. DCR: See Table on Page 2 Nominal Mutual Capacitance, C to C: 35.0 pF/ft @ 1 kHz Upper Limit Capacitance, C to C: 40.0 pF/ft @ 1kHz Nominal Impedance, C to C: 100 Ohms Nominal D.C.R.: See Table on Page 2

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

Continued

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 Phone:
 800.431.3864

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		Nom	inal Ca	able Dim	ensior	ns & Wei	ghts				
Remee Products Part Number	Number of Pairs and AWG	D.C.R. Ω/Mft	Nom. Dia. Over Insul. (in.)	Nom Dia. Over Jkt. (Copper, in.)	Number of Fibers	Nom Dia. Over Jkt. (Fiber, in.)	Nominal Overall Dimensions in.		Nominal Overall Dimensions mm	Weight lb/1000ft	Weigh Kg/km
40V-330276BRYO-16/8P	8/P 16	4.39	0.089	0.594	2	0.170	0.634 x 0.804		16.1 x 20.4	257	383
40V-330476BRYO-14/2P	2/P 14	2.76	0.104	0.329	4	0.185	0.389 x 0.574		9.9 x 14.6	131	195
40V-330476BRYO-12/2P	2/P 12	1.74	0.123	0.386	4	1.185	0.446 x 0.630		11.3 x 16.0	164	244
40V-330676BRYO-18/3P	3/P 18	5.80	0.074	0.245	6	0.200	0.285 x 0.485		7.2 x 12.3	85	126.5
40V-330276BRYO-16/4P	4/P 16	4.39	0.089	0.380	6	0.200	0.420 x 0.620		10.7 x 15.7	152	227
40V-330676BRYO-16/3P	3/P 16	4.39	0.089	0.310	6	0.200	0.350 x 0.550		8.9 x 14.0	100	148.5
40V-330676BRYO-14/3P	3/P 14	2.76	0.104	0.385	6	0.200	0.425 x 0.625		10.8 x 15.9	142	210.8
40V-330676BRYO-12/3P	3/P 12	1.74	0.123	0.475	6	0.200	0.515 x 0.715		13.1 x 18.2	185	274.7
40V-330876BRYO-18/2P	2/P 18	5.80	0.074	0.237	8	0.215	0.277 x 0.492		7.0 x 12.5	76	112
40V-330876BRYO-18/1P	1/P 18	5.80	0.074	0.188	8	0.215	0.255 x 0.443		6.5 x 11.3	57	85
40V-330876BRYO-16/2P	2/P 16	4.39	0.089	0.283	8	0.215	0.323 x 0.538		8.2 x 13.7	89	132
40V-330876BRYO-16/1P	1/P 16	4.39	0.089	0.218	8	0.215	0.258 x 0.473		6.6 x 12.0	64	95
40V-331276BRYO-18/2P	2/P 18	5.80	0.074	0.237	12	0.250	0.290 x 0.527 7.4 x 13.4		7.4 x 13.4	83	123
40V-331276BRYO-16/2P	2/P 16	4.39	0.089	0.283	12	0.250	0.323 x 0.573 8.2 x 14.6		96	143	
Cables printed in meters will have	a "-MR" suff	ix on the par	rt number.		1	I					
Fiber Type (P/N)		Maximum Attenuation dB/km				îill Launch Min 3andwidth MHz-km)	EMBc (MHz-km)	Gigabit Ethernet Mini- mum Link Distance (Meters)		10 Gigabit Ethern Minimum Link Di tance (Meters)	
		850 nm	n 1300 nm 1310 nm 1550 nm		nm 850 i	nm 1300 nm	m 1300 nm		n 1300 nm	850 nm	1300 nm
SM OS2 G.652.D/G.657.A1 BIF (76B)*		N/A	N/A	0.40 0.3	0 N/A	A N/A	N/A	N/A	5000	N/A	10000

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

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Mechanical & Environmental Performance

•Maximum Tensile Load

- Installation : 2&4 fiber 1405N / 315lbf 6&8 fiber 1610N / 362lbf 12&24 fiber 2700N / 600lbf
- Long Term : 2&4 fiber 455N / 102lbf 6&8 fiber 535N / 120lbf 12&24 fiber 600N / 135lbf

•Minimum Bending Radius Loaded : 20 x Diameter Unloaded : 10 x Diameter

•Crush Resistance 100 N/cm

•Impact Resistance (min.) 25 Impacts

•Flexing ± 90° (min.) 25 Cycles

•Temperature Rating

Operation: -20°C to +85°CInstallation: 0°C to +75°CStorage: -40°C to +85°C

Issue Date: 06/08/2022 Revision: 19

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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