

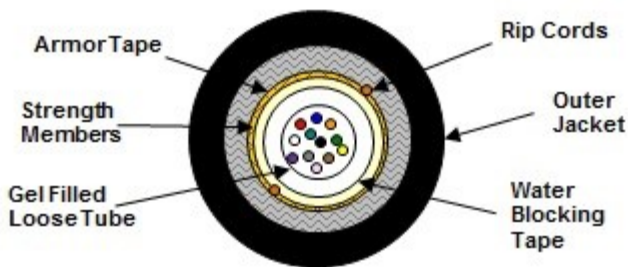
Part No: 54-XXX-XXX-EXCXNN

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Revision #: 00

## 54-Series Single Armor/Single Jacket Outdoor Central Tube Gel Filled Loose Tube Fiber Optic Cable

### Cable Cross Section



(Representation of a standard 12 fiber construction)

### Scope

This document establishes the specification requirements for an outdoor, armored dry block fiber optic cable in a gel filled loose buffer tube.

### Applications

Outdoors direct burial, Duct or Aerial Lashed

### Applicable Documents

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- RUS 1755.900
- GR-20-CORE
- Compliant with ANSI/TIA-568-C.3 standard

### Cable Construction Details

- Buffer Tube  
High Modulus Polymeric Material
- Buffer Tube Dimensions  
3.0 mm (0.118 in.), nominal
- Central Tube Color Code:  
White
- Fiber Color Code:  
As per TIA/EIA-598 standard or per customer requirement
- Filling Compound  
Non-toxic dermatological safe antioxidant hydrocarbon based gel
- Cable Core:  
The cable core consists of buffer tube with water-blocking tape
- Moisture Resistance:  
A water blocking tape is applied over the central tube with a 25% nominal overlap
- Cable Strength:  
Circumferential strength members are placed over the water blocking tape and under the steel tape.
- Armor:  
Corrugated flexible steel bonded to jacket. The armor of each length of cable shall be electrically continuous with no more than one splice allowed per kilometer of cable. The breaking strength of any section of an armor tape containing a factory splice joint, shall not be less than 80% of the breaking strength of an adjacent section of the armor of equal length without a joint.  
RipCORDS are applied under the armor tape
- Overall Sheath: UV Resistant Polyethylene

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Nominal Cable Dimensions & Weights			
Remeë Products Part Number	Number of Fibers	Cable OD in (mm)	Weight lb/1000ft (kg/km)
54-002-XXX-EXCBNN	2	0.346 (8.8)	51 (76)
54-004-XXX-EXCDNN	4	0.346 (8.8)	51 (76)
54-006-XXX-EXCFNN	6	0.346 (8.8)	51 (76)
54-008-XXX-EXCHNN	8	0.346 (8.8)	51 (76)
54-010-XXX-EXCJNN	10	0.346 (8.8)	51 (76)
54-012-XXX-EXCLNN	12	0.346 (8.8)	51 (76)

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

Jacket Color	
Designation	Color
B	Black
Y	Yellow
Z	Orange
A	Aqua
M	Violet

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
62.5µm OM1 1GIG (22J)	3.2	1.0	N/A	N/A	200	600	N/A	300	550	32	-
50µm OM2 10GIG (12D)	3.0	1.0	N/A	N/A	750	500	N/A	800	550	150	-
50µm OM3 10GIG (12N)	3.0	1.0	N/A	N/A	1500	500	2000	1000	550	300	-
50µm OM4 10GIG (12V)	3.0	1.0	N/A	N/A	3500	500	4700	1040	550	550	-
SM OS2 G.652.D (76K)	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D (74K)	N/A	N/A	0.35	0.25	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D/G.657.A1 BIF (76U)*	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D/G.657.A2, B2 BIF (76F)**	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000

*\* G.657.A1 (76U) Mandrel Radius of 10mm, 1 turn at 1550nm with an induced attenuation of ≤0.50dB*

*\*\* G.657.A2,B2 (76F) Mandrel Radius of 7.5mm, 1 turn at 1550nm with an induced attenuation of ≤0.40dB*

*Please call the factory for all other fiber types*

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## Mechanical & Environmental Performance

- Maximum Tensile Load  
Installation : 1335N / 300lbf  
Long Term : 600N / 135lbf
- Minimum Bending Radius  
Loaded : 20 x Diameter  
Unloaded : 10 x Diameter
- Crush Resistance  
440 N/cm
- Impact Resistance (min.)  
25 Impacts
- Flexing  $\pm 90^\circ$  (min.)  
25 Cycles
- Temperature Rating  
Operation :  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$   
Installation :  $-40^\circ\text{C}$  to  $+55^\circ\text{C}$   
Storage :  $-50^\circ\text{C}$  to  $+70^\circ\text{C}$

## 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 Reme Products Corp. has made every reasonable effort to ensure the accuracy of the information in this document, Reme Products Corp. does not guarantee that it is error-free, nor does Reme Products Corp. make any other representation, warranty, or guarantee that the information is accurate, correct, reliable or current. Reme Products Corp. reserves the right to make any adjustments to the information contained herein at any time without notice. Reme 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: this item may be non-cancelable and non-returnable.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_