

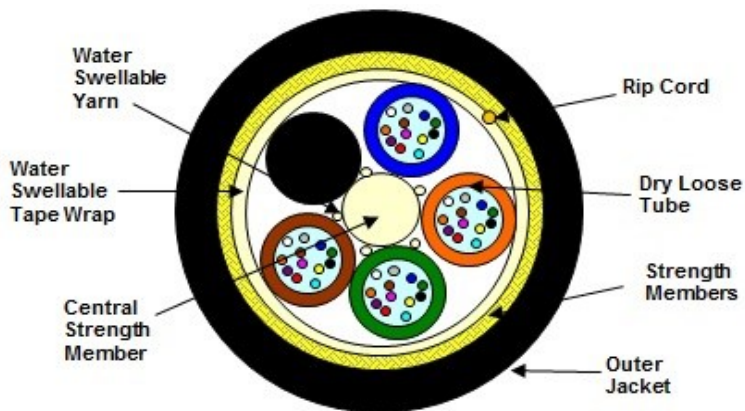
Part No: 27D-XXX-XXX-AXSXNF

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Revision #: 00

## 27D-Series Riser-Rated Indoor/Outdoor Gel Free Loose Tube Fiber Optic Cable

### Cable Cross Section



*(Representation of a standard 48 fiber construction)*

### Scope

This document establishes the specification requirements for a riser rated indoor/outdoor, all dielectric fiber optic cable utilizing Remeë's AquaLock loose tube technology.

### Applications

Outdoors in Duct, Aerial Lashed, Indoors in the riser space and Tray Installations

### Applicable Documents

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- UL 1666
- GR-20-CORE
- IEEE383 Vertical Flame Test
- Compliant with ANSI/TIA-568-C.3 standard

### Cable Construction Details

- Buffer Tube
  - High Modulus Polymeric Material
- Buffer Tube Dimensions
  - 2.50 mm (0.098 in.), nominal
- Dry Loose Tube/Fiber Color Code:
  - As per TIA/EIA-598 standard or per customer requirement
- Dielectric Central Strength Member:
  - Epoxy Glass Rod (up-coated as required per construction)
- Cable Core:
  - The cable elements with water swellable yarns are stranded around the CSM, using reverse oscillation.
- Moisture Resistance:
  - A water blocking tape is applied over the cabled core with a 25% nominal overlap
- Cable Strength:
  - Circumferential strength members are placed over the water blocking tape and under the outer sheath.
- Overall Sheath: UV Resistant Riser Rated Polyvinyl Chloride
  - A ripcord applied under the overall sheath.

*Continued*

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Nominal Cable Dimensions & Weights				
Remee Products Part Number	Number of Fibers	Number of Fibers Per Sub Unit	Cable OD in (mm)	Weight lb/1000ft (kg/km)
27D-002-XXX-AXSBNF	2	2	0.414 (10.5)	76 (112)
27D-004-XXX-AXSDNF	4	4	0.414 (10.5)	76 (112)
27D-006-XXX-AXSFNF	6	6	0.414 (10.5)	76 (112)
27D-008-XXX-AXSHNF	8	8	0.414 (10.5)	76 (112)
27D-012-XXX-AXSFNF	12	6	0.414 (10.5)	73 (108)
27D-012-XXX-AXSLNF	12	12	0.414 (10.5)	76 (112)
27D-016-XXX-AXSHNF	16	8	0.414 (10.5)	73 (108)
27D-018-XXX-AXSFNF	18	6	0.414 (10.5)	71 (104)
27D-024-XXX-AXSFNF	24	6	0.414 (10.5)	67 (99)
27D-024-XXX-AXSLNF	24	12	0.414 (10.5)	73 (108)
27D-030-XXX-AXSFNF	30	6	0.414 (10.5)	65 (96)
27D-036-XXX-AXSFNF	36	6	0.437 (11.1)	73 (108)
27D-036-XXX-AXSLNF	36	12	0.414 (10.5)	71 (104)
27D-048-XXX-AXSLNF	48	6	0.509 (12.9)	97 (143)
27D-048-XXX-AXSLNF	48	12	0.414 (10.5)	65 (96)
27D-060-XXX-AXSLNF	60	12	0.414 (10.5)	66 (97)
27D-072-XXX-AXSLNF	72	12	0.437 (11.1)	74 (109)
27D-084-XXX-AXSLNF	84	12	0.474 (12.4)	81 (120)
27D-096-XXX-AXSLNF	96	12	0.509 (12.9)	98 (144)
27D-108-XXX-AXSLNF	108	12	0.549 (13.9)	113 (167)
27D-120-XXX-AXSLNF	120	12	0.584 (14.8)	132 (194)
27D-144-XXX-AXSLNF	144	12	0.644 (16.4)	161 (238)
27D-192-XXX-AXSLNF	192	12	0.651 (16.5)	136 (200)
27D-216-XXX-AXSLNF	216	12	0.674 (17.1)	147 (217)
27D-288-XXX-AXSLNF	288	12	0.776 (19.7)	194 (287)

*\*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

Continued

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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
<b>62.5µm OM1 1GIG (22J)</b>	3.2	1.0	N/A	N/A	200	600	N/A	300	550	32	-
<b>50µm OM2 10GIG (12D)</b>	3.0	1.0	N/A	N/A	750	500	N/A	800	550	150	-
<b>50µm OM3 10GIG (12N)</b>	3.0	1.0	N/A	N/A	1500	500	2000	1000	550	300	-
<b>50µm OM4 10GIG (12V)</b>	3.0	1.0	N/A	N/A	3500	500	4700	1040	550	550	-
<b>SM OS2 G.652.D (76K)</b>	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000
<b>SM OS2 G.652.D (74K)</b>	N/A	N/A	0.35	0.25	N/A	N/A	N/A	N/A	5000	N/A	10000
<b>SM OS2 G.652.D/G.657.A1 BIF (76U)*</b>	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000
<b>SM OS2 G.652.D/G.657.A2, B2 BIF (76F)**</b>	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  $\leq 0.50$ dB

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

Please call the factory for all other fiber types

## Mechanical & Environmental Performance

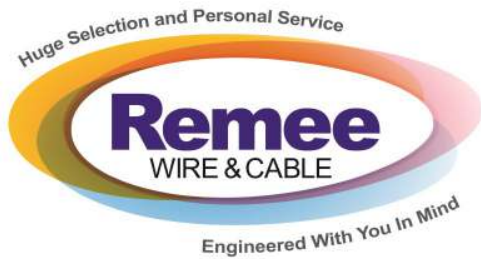
- Maximum Tensile Load  
Installation : 2700N / 607lbf  
Long Term : 890N / 200lbf
- Minimum Bending Radius  
Loaded : 20 x Diameter  
Unloaded : 15 x Diameter
- Crush Resistance  
220 N/cm
- Impact Resistance (min.)  
25 Impacts
- Flexing  $\pm 90^\circ$  (min.)  
25 Cycles
- Temperature Rating  
Operation : -40°C to +70°C  
Installation : -20°C to +55°C  
Storage : -40°C to +70°C

## Warranty Information

All warranty information can be viewed at [www.remeë.com](http://www.remeë.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: \_\_\_\_\_