

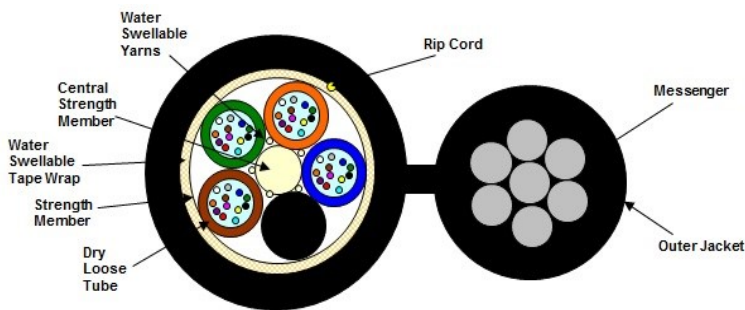
Part No: 88D-XXX-XXX-EXSXWN

Issue Date: 08/30/2018

Revision #: 00

## 88D-Series Aerial Messenger Self Supporting 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 an aerial self-supporting dry block fiber optic cable utilizing Remeë's AquaLock loose tube technology with a steel messenger.

### Applications

Aerial

### 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  
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 Polyethylene  
A ripcord applied under the overall sheath.
- Messenger:  
7 strand steel messenger with a nominal O.D. of 0.245 in. (per ASTM A640-97)  
Breaking Strength: 6600 lbs  
UV Resistant Polyethylene  
Web: 0.080 x 0.100 in.

Continued

Huge Selection and Personal Service

**Remee**  
WIRE & CABLE

Engineered With You In Mind

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)
88D-006-XXX-EXSFWN	6	6	0.424 x 0.889 (10.8 x 22.6)	203 (300)
88D-008-XXX-EXSHWN	8	8	0.424 x 0.889 (10.8 x 22.6)	203 (300)
88D-012-XXX-EXSFWN	12	6	0.424 x 0.889 (10.8 x 22.6)	202 (298)
88D-012-XXX-EXSLWN	12	12	0.424 x 0.889 (10.8 x 22.6)	203 (300)
88D-018-XXX-EXSFWN	18	6	0.424 x 0.889 (10.8 x 22.6)	202 (298)
88D-024-XXX-EXSFWN	24	6	0.424 x 0.889 (10.8 x 22.6)	200 (295)
88D-024-XXX-EXSLWN	24	12	0.424 x 0.889 (10.8 x 22.6)	202 (298)
88D-030-XXX-EXSFWN	30	6	0.424 x 0.889 (10.8 x 22.6)	200 (295)
88D-036-XXX-EXSFWN	36	6	0.447 x 0.912 (11.3 x 23.1)	207 (306)
88D-036-XXX-EXSLWN	36	12	0.424 x 0.889 (11.5 x 23.3)	202 (298)
88D-048-XXX-EXSFWN	48	6	0.519 x 0.984 (13.2 x 25.0)	223 (329)
88D-048-XXX-EXSLWN	48	12	0.424 x 0.889 (10.8 x 22.6)	201 (297)
88D-060-XXX-EXSLWN	60	12	0.424 x 0.889 (10.8 x 22.6)	200 (295)
88D-072-XXX-EXSLWN	72	12	0.447 x 0.912 (11.3 x 23.1)	208 (307)
88D-084-XXX-EXSLWN	84	12	0.484 x 0.949 (12.3 x 24.1)	215 (317)
88D-096-XXX-EXSLWN	96	12	0.519 x 0.984 (13.2 x 24.9)	224 (331)
88D-108-XXX-EXSLWN	108	12	0.559 x 1.024 (14.2 x 26.0)	241 (356)
88D-120-XXX-EXSLWN	120	12	0.594 x 1.069 (15.1 x 27.2)	252 (372)
88D-132-XXX-EXSLWN	132	12	0.624 x 1.099 (15.9 x 27.9)	262 (387)
88D-144-XXX-EXSLWN	144	12	0.654 x 1.129 (16.6 x 28.7)	273 (403)
88D-192-XXX-EXSLWN	192	12	0.651 x 1.126 (16.5 x 28.6)	255 (376)
88D-216-XXX-EXSLWN	216	12	0.674 x 1.149 (17.1 x 29.2)	265 (391)
88D-288-XXX-EXSLWN	288	12	0.776 x 1.251 (19.7 x 31.8)	301 (444)

*\*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

**Remee Wire & Cable**  
1751 State Rte 17A  
Florida, New York 10921

**Phone: 800.431.3864**  
Fax: 845.651.4160  
Email: info@remee.com

[www.remee.com](http://www.remee.com)



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

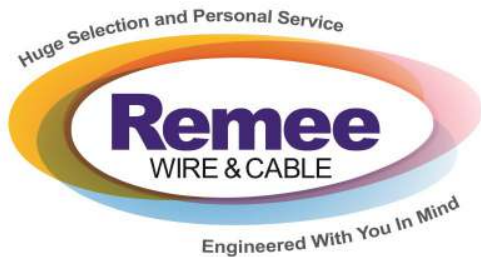
- Maximum Tensile Load  
Installation : 2700N / 607lbf  
Long Term : 890N / 200lbf
- Minimum Bending Radius  
Loaded : 20 x Diameter  
Unloaded : 15 x Diameter
- Crush Resistance  
220 N/cm
- Impact Resistance (min.)  
25 Impacts
- Flexing  $\pm 90^\circ$  (min.)  
25 Cycles
- Temperature Rating  
Operation : -40°C to +70°C  
Installation : -40°C to +55°C  
Storage : -50°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 Remee Products Corp. has made every reasonable effort to ensure the accuracy of the information in this document, Remee Products Corp. does not guarantee that it is error-free, nor does Remee Products Corp. make any other representation, warranty, or guarantee that the information is accurate, correct, reliable or current. 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: this item may be non-cancelable and non-returnable.

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