

engineered with you in mind

**PRODUCT SPECIFICATION
 PS-11-XXX-12S-AANONF**

1.0 SCOPE

This document establishes the specification requirements for a multimode OM3 distribution fiberoptic cable. This cable construction consists of multimode fibers in a distribution tight-buffered design with a riser rated PVC jacket suitable for indoors.

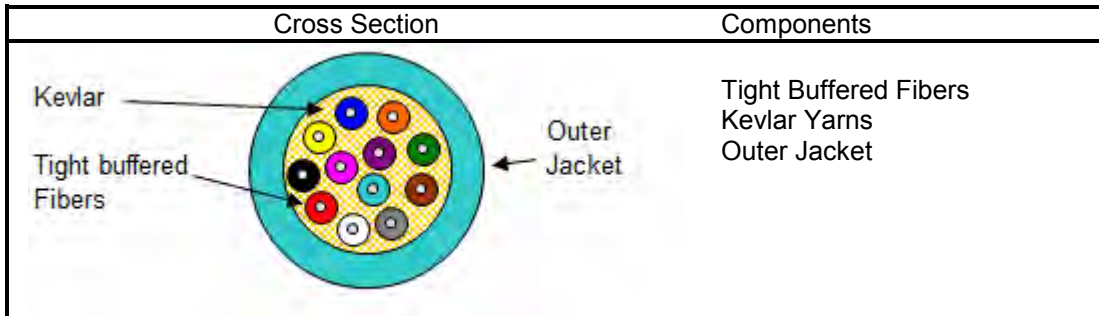
2.0 APPLICABLE DOCUMENTS

Reference Documents: TIA/EIA FOTP Standards 455
 Color Coding of Fiber Optic Cables TIA/EIA-598
 UL 1666
 GR-409-CORE

3.0 REQUIREMENTS

This document contains test values for all-important mechanical, optical, and environmental parameters and as such, is the basis for all-incoming inspection and acceptance.

4.0 CABLE CROSS SECTION



5.0 OVERALL CABLE CONSTRUCTION

- 5.1 Tight Buffered Fiber
 Dimension: 900µm, nominal.
 Tight buffered fiber color code: 1-blue, 2-orange, 3-green, 4-brown, 5-slate, 6-white, 7-red, 8-black, 9-yellow, 10-violet, 11-rose, and 12-aqua.
- 5.2 Cable strength
 Aramid yarns are pulled in with the tight-buffered fibers under the outer jacket.
- 5.3 Outer Sheath
 Aqua riser rated PVC jacket (or color per customer request)
- 5.4 Cable Markings
 REMFO 11 SERIES, FIBER OPTIC CABLE, XX (No. of fibers)-50/125, 10GIG OM3, REMEE PRODUCTS CORP., MM/YY (month & year of manufacture), OFNR C(ETL)US, Sequentially meter marked.
 Special print as required by customer.

Product Specification

5.5 Nominal Cable Dimensions & Weights

Remeer Products Part Number	No. of Fibers	Cable OD (mm)	Cable OD (in.)	Weight KG/KM	Weight LB/1000ft
11-002-12S-AANONF	2	4.3	.170	16	11
11-004-12S-AANONF	4	4.7	.185	19	13
11-006-12S-AANONF	6	5.1	.200	24	16
11-008-12S-AANONF	8	5.3	.210	27	18
11-012-12S-AANONF	12	6.4	.250	34	23

6.0 FIBER CHARACTERISTICS

6.1 Physical Parameters (nominal)

Fiber Type	Multimode*
Maximum Attenuation @ 850/1300nm	3.0 /1.0 dB/km
LED Performance (Overfilled Launch Bandwidth)	1500/500MHz-km@850/1300
Laser EMB Performance	2000/500MHz-km@850/1300
Core Diameter, nominal	50 ± 3.0 µm
Cladding Diameter	125.0 ± 2.0 µm
Primary Coating Diameter	245 ± 5 µm
Cladding Non-circularity	<2%
Core-Clad Concentricity	≤3.0 µm
Zero Dispersion Wavelength	1300-1320nm
Maximum Zero Dispersion Slope	0.101 ps/nm ² -km
Numerical Aperture	0.20 ± .015
Group Refractive Index @ 850/1300nm	1.481/1.476
Proof Test	100 kpsi

*Guaranteed Gigabit Ethernet Distance of 300mtr at 850nm for 10 Gb/s per IEEE802.3ae and 1000mtr at 850nm for 1 Gb/s per IEEE802.3z.

*Measured attenuations on shipping reels will not exceed the nominal values by .75dB/km.

7.0 MECHANICAL & ENVIRONMENTAL PERFORMANCE

Maximum Tensile Load for:

Installation: 2&4-fiber 1405N/315lbf, 6&8-fiber 1610N/362lbf
12-fiber 2700N/600lbf

Long Term: 2&4-fiber 455N/102lbf, 6&8-fiber 535N/120lbf
12-fiber 600N/135lbf

Minimum bending radius:

Loaded: 20 x diameter
Unloaded: 10 x diameter

Impact Resistance: 25 Impacts (min.)
Flexing, ±90°: 25 Cycles (min.)

Temperature rating:

Operation, -40°C to +85°C
Installation, 0°C to +75°C
Storage, -55°C to +85°C

Crush Resistance: 100N/cm

8.0 PREPARATION FOR DELIVERY

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.



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