

**PRODUCT SPECIFICATION  
PS-33-XXX-76M-RYNONP**

**1.0 SCOPE**

This document establishes the specification requirements for a distribution singlemode, fiberoptic cable. This cable construction consists of singlemode fibers in a distribution tight-buffered design with a plenum rated jacket.

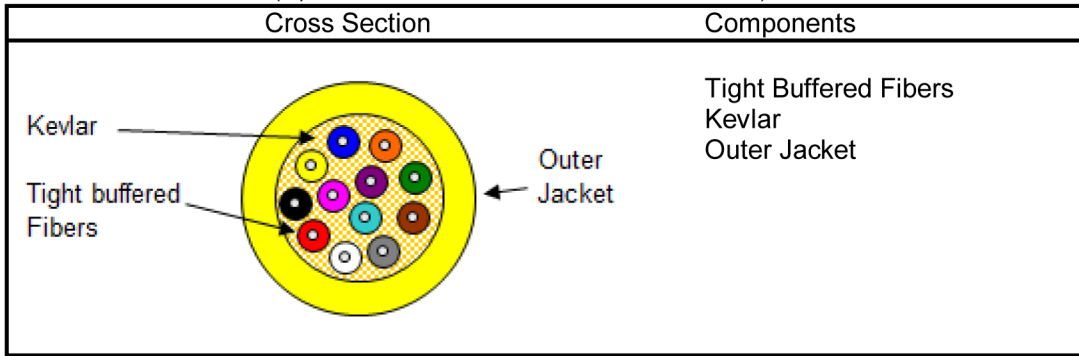
**2.0 APPLICABLE DOCUMENTS**

Reference Documents: TIA/EIA FOTP Standards 455  
 Color Coding of Fiber Optic Cables TIA/EIA-598  
 UL 910  
 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** *(representation of standard construction of 12 fibers)*



**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**

Yellow plenum rated Remguard® jacket (or color per customer request)

**5.4 Cable Markings**

REMFO 33 SERIES, FIBER OPTIC CABLE, XX (No. of fibers)-SM, REMEE PRODUCTS CORP., MM/YY (month & year of manufacture), OFNP C(ETL)US, Sequentially meter marked.

Special print as required by customer.

**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
33-002-76M-RYNONP	2	4.3	.170	18	12
33-004-76M-RYNONP	4	4.7	.185	21	14
33-006-76M-RYNONP	6	5.1	.200	27	18
33-008-76M-RYNONP	8	5.3	.210	30	20
33-012-76M-RYNONP	12	6.4	.250	39	26

## 6.0 FIBER CHARACTERISTICS

### 6.1 Physical Parameters (nominal)

Fiber Type	Singlemode
Attenuation @ 1310/1550nm	≤.40/.30 dB/km
Core Diameter, nominal	8.3 μm
Cladding Diameter	125.0 ± 1.0 μm
Primary Coating Diameter	245 ± 10 μm
Dispersion Slope	≤0.092 ps/nm <sup>2</sup> -km
Fiber Cutoff Wavelength	1150-1350nm
Cabled Cutoff Wavelength	<1260nm
Mode Field Diameter @ 1310nm	9.2 ± 0.4μm
Mode Field Diameter @ 1550nm	10.5 ± 1.0μm
Cladding Non-circularity	<1%
Core/Clad Offset	<.80 μm
Zero Dispersion Wavelength	1300-1322nm
Numerical Aperture	0.13
Group Refractive Index @ 1310/1550nm	1.467/1.4675
Proof Test	100 kpsi

\*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, -20°C to +85°C

Installation, 0°C to +75°C

Storage, -40°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.



DISTRIBUTED BY:  
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