

**1.0 SCOPE**

This document establishes the specification requirements for an indoor/outdoor multimode OM1, distribution fiberoptic cable. This cable construction consists of a distribution tight-buffered design with a plenum rated jacket.

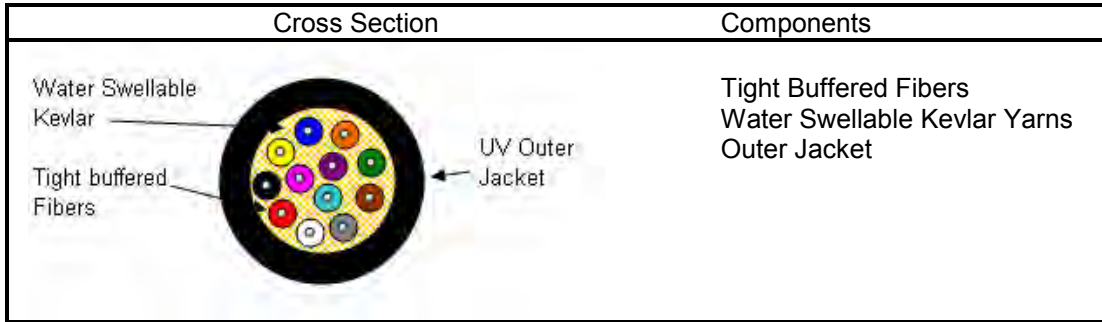
**2.0 APPLICABLE DOCUMENTS**

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**



**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**

Water swellable aramid yarns are pulled in with the tight-buffered fibers under the outer jacket.

**5.3 Outer Sheath**

Black UV Resistant plenum rated jacket (or color per customer request)

**5.4 Cable Markings**

REMFO 33 SERIES, FIBER OPTIC CABLE, XX (No. of fibers)-62.5/125, 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**

Remees Products Part Number	No. of Fibers	Cable OD (mm)	Cable OD (in.)	Weight KG/KM	Weight LB/1000ft
33-002-22J-RBNOOP	2	4.3	.170	18	12
33-004-22J-RBNOOP	4	4.4	.185	21	14
33-006-22J-RBNOOP	6	4.6	.200	27	18
33-008-22J-RBNOOP	8	5.0	.215	31	20
33-012-22J-RBNOOP	12	5.8	.250	39	26

**6.0 FIBER CHARACTERISTICS**

6.1 Physical Parameters (nominal)

Fiber Type	Multimode Graded Index*
Maximum Attenuation @ 850/1300nm**	3.2 /1.0 dB/km
Minimum Bandwidth @850/1300nm	200/600MHz-km
Core Diameter, nominal	62.5 ± 3 µm
Cladding Diameter	125.0 ± 1.0 µm
Primary Coating Diameter	245 ± 10 µm
Cladding Non-circularity	<2%
Core/Clad Offset	3 µm
Zero Dispersion Wavelength	1320-1365nm
Numerical Aperture	0.275 ± .015
Group Refractive Index @ 850/1300nm	1.496/1.491
Proof Test	100 kpsi

\*Guaranteed Gigabit Ethernet Distance of 300/550mtr 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: 4-fiber 1405N/315lbf, 6&8-fiber 1610N/362lbf  
 12-fiber 2700N/600lbf

Long Term: 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.)

Crush Resistance: 100N/cm

Temperature rating:

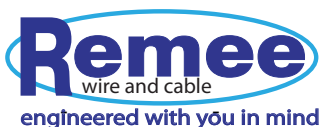
Operation, -20°C to +85°C

Installation, 0°C to +75°C

Storage, -40°C to +85°C

**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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