

TIGHT BUFFER OFNR CABLES PRODUCT SPECIFICATION 77XXX22JAZNONF

This document establishes the specification requirements for a distribution fiber optic cable. This cable construction consists of multimode fibers in a distribution tight-buffered design with a riser rated PVC jacket. It contains test values for all-important mechanical, optical, and environmental parameters and as such, is the basis for all-incoming inspection and acceptance.

1.0 OVERALL CABLE CONSTRUCTION

1.1 <u>Tight Buffered Fiber</u>

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.

1.2 Cable strength

Aramid yarns are pulled in with the tight-buffered fibers under the outer jacket.

1.3 Outer Sheath

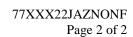
Orange riser rated PVC jacket (or color per customer request)

1.4 Cable Markings

Indent printed: CCT GROUP77, FIBER OPTIC CABLE, # of fibers-62.5/125, MM/YY (month and year of manufacture), sequentially meter marked. Special print as required by customer.

1.5 Nominal Cable Dimensions & Weights

CCT		Cable	Cable	Weight	Weight
Part Number	No. of Fibers	OD (mm)	OD (in.)	KG/KM	LB/1000ft
7700222JAZNONF	2	4.3	.170	16	11
7700422JAZNONF	4	4.7	.185	19	13
7700622JAZNONF	6	5.1	.200	24	16
7700822JAZNONF	8	5.3	.210	27	18
7701222JAZNONF	12	6.4	.250	34	23





2.0 FIBER CHARACTERISTICS

2.1 Physical Parameters (nominal)

Multimode Graded Index Fiber Type

Maximum Attenuation @ 850/1300nm 3.2 /1.0 dB/km Minimum Bandwidth @850/1300nm 200/600MHz-km Core Diameter, nominal $62.5 \pm 3 \mu m$ $125.0 \pm 1.0 \ \mu m$ Cladding Diameter **Primary Coating Diameter** $245 \pm 10 \ \mu m$

Cladding Non-circularity <2% Core/Clad Offset 3 um

Zero Dispersion Wavelength 1320-1365nm Numerical Aperture $0.275 \pm .015$ Group Refractive Index @ 850/1300nm 1.496/1.491 **Proof Test** 100 kpsi

*Guaranteed Gigabit Ethernet Distance of 300/550mtr per IEEE802.3z.

3.0 MECHANICAL & ENVIRONMENTAL PERFORMANCE

Maximum Tensile Load for:

Installation: 2&4-fiber 1405N/315lbf, 6&8-fiber 1610N/362lbf Impact Resistance: 25 Impacts

12-fiber 2700N/600lbf Flexing, ±90°: 25 Cycles (min.)

Long Term: 2&4-fiber 455N/102lbf, 6&8-fiber 535N/120lbf Temperature rating:

Operation:

-40°C to +85°C 12-fiber 600N/135lbf Minimum bending radius: Installation: 0° C to $+75^{\circ}$ C

Loaded: 20 x diameter -55° C to $+85^{\circ}$ C Storage:

> Unloaded: 10 x diameter Crush Resistance: 100N/cm

4.0 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.

5.0 APPLICABLE DOCUMENTS

Reference Documents: TIA/EIA FOTP Standards 455

Color Coding of Fiber Optic Cables TIA/EIA-598

UL 1666 GR-409-CORE

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