OSP LOOSE TUBE OFNR CENTRAL TUBE CONSTRUCTION
FIBER OPTIC WIRE
PRODUCT SPECIFICATION
67XXX22JABCXNN

This document establishes the specifications for an indoor/outdoor, single 3mm central tube design with a flame retardant 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 Buffer tube
High Modulus Polymeric material
Dimension: 3.0 mm. nominal.
Tube color: white
Fiber color code: per TIA/EIA-598
Filling compound: A non-toxic and dermatological safe antioxidant hydrocarbon based gel.

1.2 Cable Core
The cable core consists of the buffer tube with a moisture resistant water-blocking tape applied over the tube to prevent water ingress and migration with a nominal of a 25% overlap.

1.3 Cable strength
Circumferential strength members are placed over the cable core and under the outer sheath.

1.4 Outer Sheath
UV Resistant Flame Retardant Black PVC
Wall thickness (nominal): 1.52mm.
A ripcord is applied under outer sheath.

1.5 Cable Markings
Indent printed: CCT GROUP67, FIBER OPTIC CABLE, # of fibers-62.5/125, MM/YY (month and year of manufacture), sequentially meter marked. Special print as required by customer.
Note: This product is not OFNR, ETL or UL listed.

1.6 Nominal Cable Dimensions & Weights

CCT Part Number	Cable OD (in.)	Cable OD (mm)	Weight LB/MFT	Weight KG/KM
6700222JABCBNN	.271	6.9	36	53
6700422JABCDNN	.271	6.9	36	53
6700622JABCFNN	.271	6.9	36	53
6700822JABCFNN	.271	6.9	36	53
6701022JABCJNN	.271	6.9	36	53
6701222JABCLNN	.271	6.9	36	53

2.0 FIBER CHARACTERISTICS - Physical Parameters

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.*

3.0 MECHANICAL & ENVIRONMENTAL PERFORMANCE

Maximum Tensile Load for:
- Installation: 1335N / 300lbf
- Long Term: 334N / 75lbf

Minimum bending radius:
- Loaded: 20 x diameter
- Unloaded: 10 x diameter

Crush Resistance: 220N/cm

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

Operation:	-40°C to +70°C
Installation:	-20°C to +55°C
Storage:	-40°C to +70°C

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