



**OSP LOOSE TUBE OFNR CENTRAL TUBE CONSTRUCTION
FIBER OPTIC WIRE
PRODUCT SPECIFICATION
67XXX74EABCXNN**

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-SM, MM/YY (month and year of manufacture), TELEPHONE HANDSET SYMBOL 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
6700274EABCBNN	.271	6.9	36	53
6700474EABCDNN	.271	6.9	36	53
6700674EABCFNN	.271	6.9	36	53
6700874EABCFNN	.271	6.9	36	53
6701074EABCJNN	.271	6.9	36	53
6701274EABCLNN	.271	6.9	36	53



2.0 FIBER CHARACTERISTICS - Physical Parameters

Fiber Type	Single mode*
Maximum Attenuation @ 1310/1550nm	0.35/0.25 dB/km
Core Diameter	8.2 μm
Cladding Diameter	125.0 \pm 0.7 μm
Maximum Core/Clad Concentricity Error	0.5 μm
Maximum Cladding Non-circularity	0.7%
Primary Coating Diameter	245 \pm 5 μm
Cabled Cutoff Wavelength	<1260nm
Mode Field Diameter	9.2 \pm 0.4 μm @1310nm 10.4 \pm 0.5 μm @1550nm
Temperature Dependence	\leq 0.05dB/km (-60°C to 85°C)
Zero Dispersion Slope	0.089ps/nm ² -km
Maximum PMD Link Design Value	0.06ps/ $\sqrt{\text{km}}$
Group Refractive Index @ 1310/1550	1.4677 / 1.4682
Proof Test	100 kpsi

**According to ITU G.652.d*

3.0 MECHANICAL & ENVIRONMENTAL PERFORMANCE

Maximum Tensile Load for:	Impact Resistance: 25 Impacts (min.)
Installation: 1335N / 300lbf	Flexing, \pm 90°: 25 Cycles (min.)
Long Term: 334N / 75lbf	Temperature rating:
Minimum bending radius:	Operation: -40°C to +70°C
Loaded: 20 x diameter	Installation: -20°C to +55°C
Unloaded: 10 x diameter	Storage: -40°C to +70°C
Crush Resistance: 220N/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