

PRODUCT SPECIFICATION AJ99XXX76EAIALR

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1.0 SCOPE

This document establishes the specification requirements for an indoor/outdoor distribution fiberoptic cable. This cable construction consists of singlemode OS2 fibers in a distribution tight-buffered design with an interlocking armor and a plenum rated jacket.

2.0 APPLICABLE DOCUMENTS

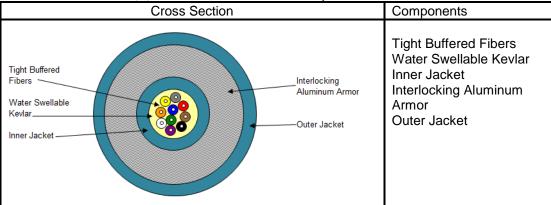
Reference Documents:

TIA/EIA FOTP Standards 455 Color Coding of Fiber Optic Cables TIA/EIA-598 GR-409-CORE UL 910

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 (representative of standard construction)



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-purple, 11-pink and 12-aqua

5.2 Cable strength

Water swellable aramid yarns are pulled in with the tight-buffered fibers under the inner sheath.

5.3 Inner Sheath

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

5.4 Cable Markings

CCT GROUP 99, FIBER OPTIC CABLE, XX(No. of fibers)-SM OS2, CONVERGENT CONNECTIVITY TECHNOLOGY, MM/YY (Month & Year of Manufacture), OFNP C(ETL)US SEQUENTIAL METER MARKINGS

5.5 Armor

Aluminum Interlocking Armor Tape

5.6 Outer Sheath

Aqua plenum rated jacket (or color per customer request)

5.7 Cable Markings

GROUP AJ99, FIBER OPTIC CABLE, XX(No. of Fibers)-SM OS2, CONVERGENT CONNECTIVITY TECHNOLOGY., MM/YY (month & year of manufacture), OFCP C(ETL)US, Sequentially meter marked. Special print as required by customer.

5.8 Nominal Cable Dimensions without the armor:

CCT Part Number	No. of Fibers	Cable OD (mm)	Cable OD (in.)	Weight KG/KM	Weight LB/1000ft
9900276ERANOOP	2	4.3	.170	18	12
9900476ERANOOP	4	4.4	.185	21	14
9900676ERANOOP	6	4.6	.200	27	18
9900876ERANOOP	8	5.0	.215	31	20
9901276ERANOOP	12	5.8	.250	39	26

Dimensions and weights including the armored jacket

ССТ	No. of	Cable	Cable Weight		Weight
Part Number	Fibers	OD (mm)	OD (in.)	KG/KM	LB/1000ft
AJ9900276EAIALR	2	15.4	0.605	185	124
AJ9900476EAIALR	4	15.4	0.605	188	126
AJ9900676EAIALR	6	15.4	0.605	193	130
AJ9900876EAIALR	8	15.4	0.605	196	132
AJ9901276EAIALR	12	15.4	0.605	205	138

5.0 FIBER CHARACTERISTICS

5.1 Physical Parameters	(nominal)
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I.	ritysical ratalleters (nonlinal)	
	Fiber Type	Single mode*
	Maximum Attenuation:	0.40/0.30 dB/km**
	Cladding Diameter:	$125.0\pm7~\mu m$
	Maximum Core/Clad Concentricity Error	0.5 μm
	Maximum Cladding Non-circularity:	0.7%
	Primary Coating Diameter:	$242\pm7~\mu m$
	Cabled Cutoff Wavelength:	<1260nm
	Mode Field Diameter:	$9.0 \pm 0.4 \mu m$ @ 1310nm
		$10.1 \pm 0.5 \mu m$ @ 1550nm
	Temperature Dependence:	≤ 0.05 dB/km (-60°C to 85°C)
	Zero Dispersion Slope:	0.090ps/nm ² -km
	Maximum PMD Link Design Value:	0.06ps/√km
	Group Refractive Index @ 1310/1550:	1.467 / 1.468
	Proof Test:	100 kpsi
	*According to ITU G.652.d	
	** Measured attenuations on shipping reels will not exceed the nomina	II values by ./ Sob/km (I lont Buttered

** Measured attenuations on shipping reels will not exceed the nominal values by .75dB/km (Tight Buffered Cables Only)

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6.0 MECHANICAL & ENVIRONMENTAL PERFORMANCE

Cable only without armor: 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

Overall over armor:

Maximum Tensile Load for the Interlock Armored Jacket: Temperature rating: 600N / 150lbf Crush Resistance (Over Armor): 1000N/cm

7.0 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.

Customer Signature of Approval for Acceptance of this Custom Cable Design
Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order; this item may be non-cancelable and non-returnable.
Signature:
Company:
Date:

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