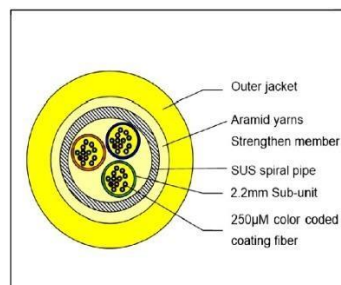




AMC-NB-5P12-250

AMC indoor armored mini cable fiber optic cable provides small diameter and superior protection for easy installation, allowing for high density pulls in a much smaller form than corrugated armor. All fibers are color coded per EIA/TIA guidelines. Available in both Plenum and Riser jacket, providing excellent protection and durability, while adhering to fire code.



TRG Tec Single Mode fiber complies with or exceeds the ITU-T Recommendation G.652.D/G.657, A2/G.657.B2, including IEC-60793-2-50 type B1.3/B6 Optical fiber specification, and TIA/EIA-492CAAB detail specification.

Features:

- 250um loose-tube design allows for higher fiber counts in a smaller overall diameter
- No gel design makes installation quick, easy and clean
- Excellent low macro-bending sensitivity and low water-peak level
- Optimized for use in O-E-S-C-L band (1260-1625)
- Complies with TIA-568-C.3
- Excellent crush resistance to 3000N. mini diameter SUS spring tube reinforced to ensure good mechanical performance •

Available in 12 different jacket colors



Applications:

- Data Centers
- Cross Connect
- Duplex and Multi Fiber assemblies
- Field termination and field splicing
- Tight and pre-existing installations

Physical Specifications:

Compliant with ICEA S-83-596

Temperatures

Storage: -40' to +158' Fahrenheit Installation: +14'
to +158 Fahrenheit Operation: -40' to +158'
Fahrenheit



<u>Fiber Count</u>	<u>OD (inches)</u>	<u>Weight (lbs./1k)</u>	<u>Tensile Loads(N)</u>		<u>Crush(N/100mm)</u>		<u>Min. Bend Radius (Inches)</u>	
			<i>Short-term</i>	<i>Long-Term</i>	<i>Short-Term</i>	<i>Long-Term</i>	<i>Dynamic</i>	<i>Static</i>
6/12	.118	12.8	300	200	3000	2000	2.36	1.18
24	.236	59.15	800	400	3000	2000	6.30	3.15
36	.335	67.98	800	400	3000	2000	6.70	3.35
48	.394	90.10	1000	500	3000	2000	7.88	3.94

Transmission Performance:

Geometrical Characteristics

Cladding Diameter	125.0 ± 0.7	(um)
Cladding Non-Circularity	≤ 0.7	(%)
Coating Diameter	245 ± 5	(um)
Coating/Cladding Concentricity Error	≤ 12.0	(um)
Coating Non-Circularity	≤ 6.0 Core/Cladding Concentricity Error	(%)
Curl(radius)	≥ 4	(m)
Delivery length	2.1 to 50.4	(km/reel)

Attenuation

1310nm	≤ .35	(dB/km)
1383nm	≤ .35	(dB/km)
1460nm	≤ .25	(dB/km) 1490nm
	≤ .23	(dB/km)
1550nm	≤ .21	(dB/km)

1625nm

< .23

(dB/km)



Attenuation v. Wavelength	1285 – 1330nm	≤ 0.03	(dB/km)
<u>Max. & difference</u>	1525 – 1575nm	< 0.02	(dB/km)
<u>Zero dispersion wavelength</u>		1300 – 1324	(nm)
<u>Zero dispersion slope</u>		< 0.092	(ps/(nm . km))
PMD			
Maximum individual fiber		≤ 0.01	(ps/(nm-km))
Link Design Value (M=20, Q=0.01%)		≤ 0.06	(ps/(nm-km))
<u>Typical value</u>		0.04	(ps/(nm-km))
<u>Cable cutoff wavelength</u>		1260	(nm)
<u>Mode field diameter (MFD)</u>	1310nm	8.4-9.2	(um)
	1550nm	9.3-10.3	(um)
<u>Effective group index of refraction</u>	1310nm	1.466	
	1550nm	1.467	
<u>Port Discontinuities</u>	1310nm	≤ 0.05	(dB)
	1550nm	< 0.05	(dB)
Environmental Characteristics			(1310nm, 1150nm, 1625nm)
. Temperature Cycle	-60°C to +85°C	≤ 0.05	(dB/km)
Temperature-Humidity Cycling	-10°C to +85°C, 4% to 98% RH	≤ 0.05	(dB/km)
Water Immersion	23°C, 30 days	≤ 0.05	(dB/km)
Dry Heat	85°C, 30 days	≤ 0.05	(dB/km)
Damp Heat	85°C, 85% RH, 30 days	≤ 0.05	(dB/km)
Mechanical Specifications			
<u>Proof Test</u>		≥ 9.0	[N]
		≥ 1.0	[%]
		> 100	[kpsi]
<u>Coating strip force</u>	Typical average force	1.5	[N]
	Peak force	> 1.3 <8.9	[N]

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