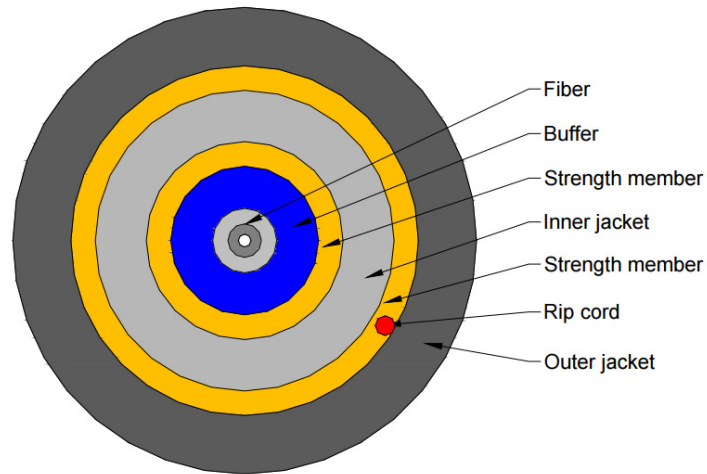




DROP 5.0 DOUBLE JACKET

AR-21-DROP5.0-1F-
G657A2-TE

1. STRUCTURE DIAGRAM



2. OPTICAL CHARACTERISTICS

ITU-T G .657A2

Items	Description	
	Before cable	After cable
atten.1310	$\leq 0.35\text{dB/km}$	$\leq 0.35\text{dB/km}$
atten.1383	$\leq 0.35\text{dB/km}$	$\leq 0.36\text{dB/km}$
atten.1550	$\leq 0.21\text{dB/km}$	$\leq 0.23\text{dB/km}$
atten.1625	$\leq 0.23\text{dB/km}$	$\leq 0.26\text{dB/km}$
Cable cut-off wavelength	$\leq 1260\text{ nm}$	
Zero-dispersion wavelength	1300 ~ 1324 nm	
Zero-dispersion slope	$\leq 0.092\text{ ps}/(\text{nm}^2.\text{km})$	
Mode field diameter	@ 1310 nm 8.4~9.2 μm	
Core/Clad concentricity error	$\leq 0.5\ \mu\text{m}$	
Cladding diameter	$125 \pm 0.7\ \mu\text{m}$	
Cladding non-circularity	$\leq 0.7\%$	
Primary Coating diameter	$245 \pm 5\ \mu\text{m}$	
Macro-bend induced attenuation		
7.5mm radius, 1 turn	$\Delta \leq 0.2\ \text{dB @1550nm}$	
10mm radius, 1 turn	$\Delta \leq 0.1\ \text{dB @1550nm}$	
15mm radius , 10 turns	$\Delta \leq 0.03\ \text{dB @1550nm}$	

3. CABLE DIMENSIONS AND CONSTRUCTIONS

Items	Descriptions	
Tight buffer fiber	Fiber count	1
	Diameter	0.90±0.05mm
	Color	Blue
	Material	LSZH
Strength Member	Material	Water-blocking aramid yarns
Inner jacket	Material	LSZH
	Color	Ivory or white
	Min. thickness	0.3mm
	Diameter	2.0±0.1mm
Strength Member	Material	Aramid yarn & water-blocking aramid yarns
Outer jacket	Material	LSZH, UV-resistance
	Color	Black
	Min. Thickness	0.8mm
	Diameter	5.0±0.2mm
Weight	28kg/km (Approx.)	

4. MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test item	Test method	Requirement
Tensile Strength	IEC 60794-1-E1 (1000N for 1h)	Fiber elongation ≤0.36% Residual elongation≤0.05% Attenuation change ≤0.1dB @1550nm
Crush	IEC 60794-1-E3 (1000N/100mm in 15 minutes)	Attenuation change ≤0.10dB @1550nm
Impact	IEC 60794-1-2-E4 (5N.m impact and D=300mm)	Attenuation change ≤0.10dB @1550nm
Torsion	IEC 60794-1-2-E7 (25N load and 10 cycles)	Attenuation change ≤0.10dB @1550nm
Repeat bending	IEC 60794-1-2-E6 (D=100mm and 55N load, 25cycles)	Attenuation change ≤0.10dB @1550nm
Temperature Range	IEC 60794-1-2-F1 (-15°C~+65°C)	Attenuation change ≤0.2dB @1550nm
Water penetration	IEC 60794-1-2-F5A (3m length, 1m height, 24hrs)	No leakage of water
Jacket shrinkage	EIA-RS-455-86 (85°C, 4hrs)	≤5.0%

ROHS (2011/65/EU)

COMPLIANT

5. MARKING

Per customer's requirements.

6. DELIVERY LENGTH

Standard delivery length is 1km/drum or per customer's requirements.