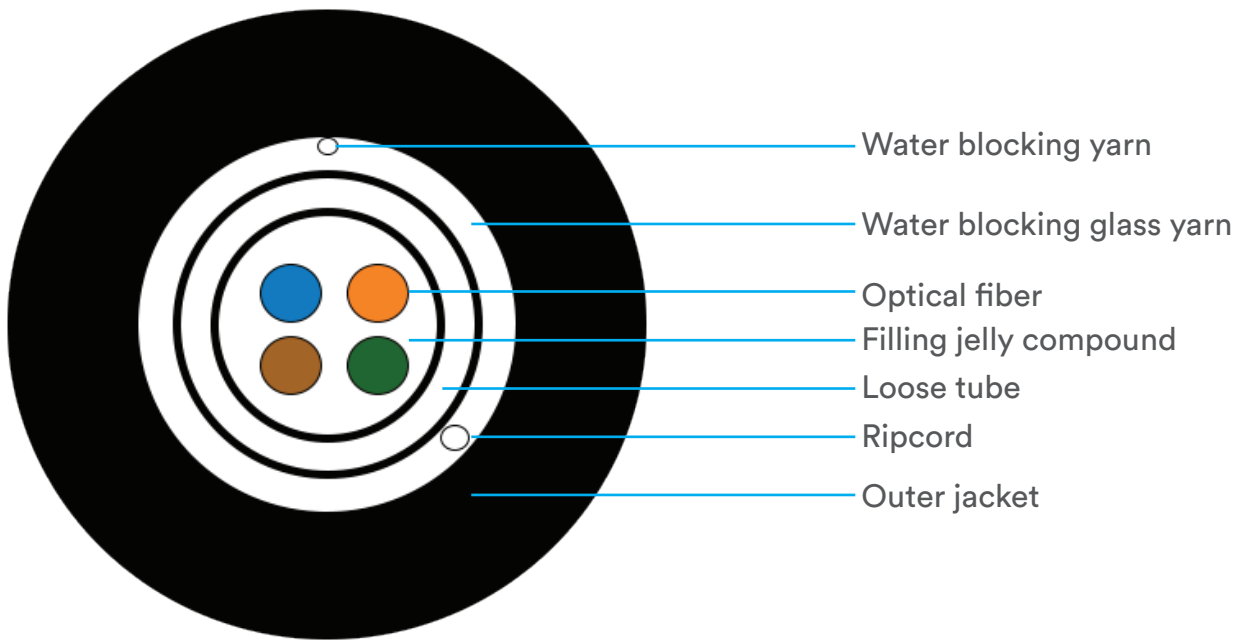


Dual Purpose Drop Cable - 4 Core

SKU: AC-FIB-CAB-DUAL-4

Cable cross section



Optical Fiber Type and Properties

Item	Unit	Specification
Fiber Type		G.657A2
Mode field diameter 1310nm	μm	8.6 ± 0.4
Cladding diameter	μm	125.0 ± 1.0
Cladding non-circularity	%	≤1.0
Coating diameter	μm	243 ± 7
Attenuation Coefficient	dB/km	
1310nm	dB/km	≤0.35
1550nm	dB/km	≤0.22
Macro-bend loss (1 turn, 7.5mm radius)		
1550nm	dB/km	≤0.5
1625nm	db/km	≤1.0
Proof stress level	kpsi	≥100



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Cable Performance

Item		Parameters
Fiber	Colour	Full colour spectrum
Loose tube	Material	PBT
	Colour	Natural Colour
Reinforced pieces	Material	Water blocking glass yarn
Outer jacket	Material	HDPE
	Colour	Black
	Static	10 x cable diameter
Min. bending radius	Dynamic	20 x cable diameter
	Short term	150N (additional attenuation ≤0.1dB)
Tensile performance	Short term	200n/100mm (additional attenuation ≤0.1dB)

No.	Item	Method	Acceptance criteria
1.	Tensile test	Max.tensile strenght: 150N Sample length: 50m Time: 1 minute	Attenuation increase ≤0.1dB
2.	Crush test	Load: 200N/100mm Time: 1 minute Length: 100mm	No splits or cracks in outer jacket attenuation increase ≤0.1dB
3.	Torsion test	1m cable length with 25N weight ± 180°, 10 cycles	No splits or cracks in outer jacket attenuation increase ≤0.1dB
4.	Repeated bending	Radius = 20 x cable outer diameter 1m calbe length with 25N weight, 35 cycles	No splits or cracks in the outer jacket attenuation increase ≤0.1dB



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Cable Performance

No.	Item	Method	Acceptance criteria
5.	Temp cycling test	Temperature step +20°C to -10°C +70°C to -10°C to +70°C to +20°C Time per each step: 12hrs Number of cycles: 2 cycles	Attenuation variation for reference value (the attenuation te measured before test at +20±3°C) ≤0.10dB/km
6.	Water penetration testing	Water height: 1m Sample length: 3m Duration of test: 24hrs	No water leakage at the end of the sample
7.	Drip test	Five 0.3m samples suspended vertically in a climate chamber, raised temperature to +70°C	No filling compound shall drip from tubes after 24hr

Working Condition

Item	Standard	Parameters
Operation temperare	IEC 60794-1-2 F1	-10°C~+70°C