

8-24 Core LT, PVC Jacket Armored In/Outdoor Fiber Cable

Revision record

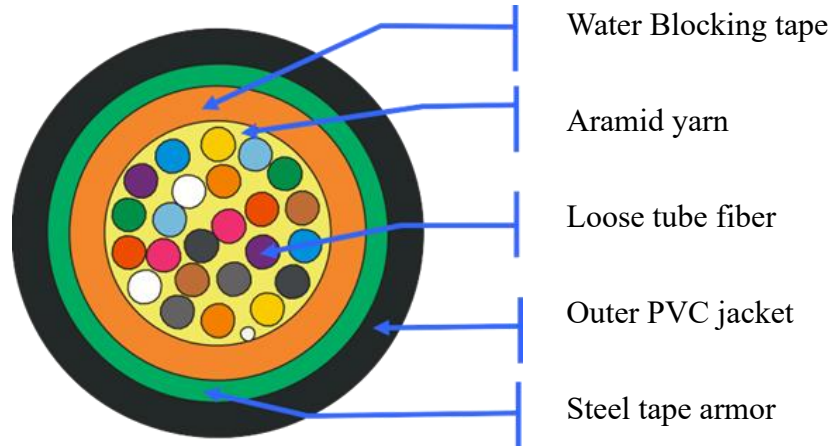
Date	Revision	Change Description	Author	Document Number
2019-2-27	V.3	First version	Justin	89012-02-001-A

BICC CABLE LIMITED

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8-24 Core LT, PVC Jacket Armored In/Outdoor Fiber Cable

Cable Structure



Cable Technical Parameters

Model		BIODF		
Fiber count		8	12	24
Cable	OD(mm)	7.0±0.3	8.0±0.4	12.0±0.5
	Material	PE		
Tight Buffer	OD(mm)	0.85± 0.05		
	Material	PVC		
Nominal weight(kg/km)		48 +/- 3	68 +/- 4	168 +/- 6
Max. tensile Strength(N)	Short-term	600	800	1200
	Long-term	400	500	600
Min. Bending Radius(mm)	Dynamic	20D		
	Static	10D		
Max. Crush Resistance(N/100mm)	Short-term	1000		
	Long-term	500		
Jacket Color		Aqua		
Strength Members		Aramid yarn		
Environmental Protection		RoHS COMPLIANT		
Temperature range	Storage or transportation	-30~70°C		
	Operation	-20~70°C		

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Applications

- As building to building connecting cable
- As indoor soft cable along the wall, ceiling, between layers and in conduits
- As pigtailed, movable connectors and patch cords for communication equipment

Cable Characteristics

- High strength aramid yarn strength member
- Small outer diameter, light weight, flame-retardant
- Suitable for installation, operation and convenient for maintenance

Cable Standards

- National Electrical Code® (NEC®) OFNR, FT-4
- ANSI/TIA/EIA-568-B.1, 568-B.3-2000, 569-A, 570-A, 606
- CMR/OFNR - UL-1666 and CSA FT-4 (for riser and general building applications);
ICEA S-83596
- LSZH - meets IEC 61034-1/2, IEC 754-1/2 and IEC 332-3C

Cable Sheath marking

Black color printing at each meter distance of cable sheath

The standard printing contents are as below,

Labelling of wooden reel

The standard label contents are as below (alternative labelling available on request).

- Model name of cable
- Fiber count
- Length of cable packed on reel
- Gross weight KGS
- Total no. of reel of the batch of cargoes
- Manufacture month and year

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Features

- Fiber count----- 8-24
- Fiber characteristic -----OD: 242±7 um
- Characteristic of tight buffered -----OD: 0.93±0.05 mm
- Thickness of buffered jacket: 0.32±0.02 mm
- Outer jacket : PE
- Armor: Steel tape

Fiber color code

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	aqua

Optical Fiber Characteristics

Fiber type	Attenuation				OFL bandwidth	Effective model bandwidth	10G Ethernet SX	Min bend radius
	1310/1550nm		850/1300nm					
Conditions	Typical	Maximum	Typical	Maximum	850/1300nm	850nm	850nm	/
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.30/0.22	0.35/0.25	---	---	---	---	---	16
G657A1	0.30/0.22	0.35/0.25	---	---	---	---	---	10
50/125	---	---	3.0/1.0	3.5/1.5	≥500/500			30
62.5/125	---	---	3.0/1.0	3.5/1.5	≥200/500			30
OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	30
OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	30
BI-OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	7.5
BI-OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	7.5

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Singlemode fiber

Item	Unit	Specification
Attenuation	dB/km	1310nm ≤ 0.35 1550nm ≤ 0.25
Dispersion	Ps/nm.km	1285~1330nm ≤ 3.5 1550nm ≤ 18.0
Zero dispersion wavelength	Nm	1300~1324
Zero dispersion slope	Ps/nm.km	≤ 0.095
Fiber cutoff wavelength	Nm	≤ 1260
Mode field diameter	Um	9.3 ± 0.5
Mode field concentricity	Um	≤ 0.8
Cladding diameter	um	125 ± 1.0
Cladding non-circularity	%	≤ 1.0
Coating/cladding concentricity error	Um	≤ 12.5
Coating diameter	um	245 ± 1.0
bending, dependence attenuation	induced	1550nm, 1turns, 32mm diameter ≤ 0.5 db 100turns, 60mm diameter
Proof test	kpsi	≥ 100

Multimode fiber

Item	Unit	Specification
Attenuation	dB/km	850 nm ≤ 3.0 1300 nm ≤ 1.0
Bandwidth	MHz • km	50/125um 62.5/125 um 850 nm ≥ 400 850 nm ≥ 200 1300 nm ≥ 500 1300 nm ≥ 500
Cladding diameter	um	125 ± 1.0
Cladding non-circularity	%	≤ 1.0
Coating/cladding concentricity error	Um	≤ 12.5
Coating diameter	um	245 ± 1.0
bending, dependence attenuation	induced	850nm, 1300nm 100turns, 75mm diameter ≤ 0.5 at 850 nm \ 1300 nm
Proof test	kpsi	≥ 100