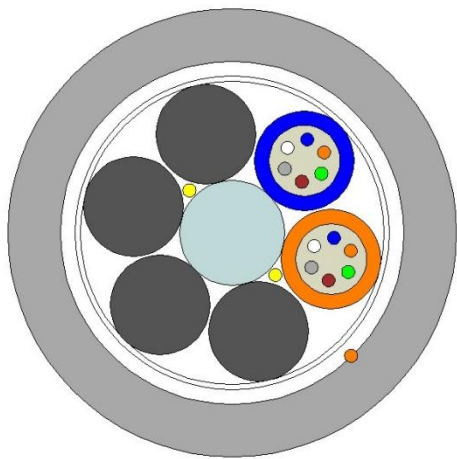


6F to 144F Single Jacket ALL Dielectric DUCT Cable PE (C-XXXX3MNXXGXXXX-BKX) --LinkPro Cabling Inc.

Description



- not to scale -

- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP) with PE coating when needed.
- **Tube:** thermoplastic material, containing up to 12 optical fibres and filled with a suitable water tightness compound.
- **Stranding:** the required number of elements (tubes or fillers) are SZ stranded around the central strength member.
- **Core Wrapping:** water blocking tape (dry core).
- **Peripheral reinforcement:** glass yarns.
- **Outer Sheath:** PE. 1 ripcord beneath

Optical Fiber Characteristic

Fiber Type	After cabled max attenuation(dB/km)				Overfilled modal bandwidth(OFL)	Effective modal bandwidth	Minimum bending radius
	1310nm	1550nm	850nm	1300nm	850/1300nm (MHZ.km)	850/953nm (MHZ.km)	mm
G.652.D	0.4	0.3	-	-	-	-	16
G.657.A1	0.4	0.3	-	-	-	-	10
G.657.A2	0.4	0.3	-	-	-	-	7.5
G.657.B3	0.4	0.3	-	-	-	-	5
OM1	-	-	3.5	1.5	≥200/500	-	37.5
OM2	-	-	3.5	1.5	≥500/500	-	7.5
OM3	-	-	3.5	1.5	≥1500/500	≥2000	7.5
OM4	-	-	3.5	1.5	≥3500/500	≥4700	7.5
OM5	-	-	3.5	1.5	≥3500/500	≥4700/2470	7.5

Fiber Identification (IEC TR 63194)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

Loose Tube Identification (IEC TR 63194)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

Note: Fillers are black

Constructions and Technical Parameters

Items		Descriptions				
Fiber counts		6~36	8~48	60~72	96	144
Design(element ×fibre per tube)		6x6	6x8	6x12	8x12	12x12
Cable nominal Diameter(mm)		10.5	10.7	11.0	12.2	14.9
Minimum bending radius	Static(mm)	10×Cable diameter				
	Dynamic(mm)	20×Cable diameter				

Mechanical and Environmental Characteristics

Items	Descriptions		Test Method	Requirements
Tensile performance	Short-term	1500N	IEC 60794-1-21 Method E1	fibre strain ≤ 0.6%, Δα reversible
Crush resistance	Short-term	1500N/10cm	IEC 60794-1-21 Method E3	Δα ≤ 0.1 dB
Temperature range	-40 °C to +70 °C		IEC 60794-1-22 Method F1	Δα ≤ 0.1 dB /km
Water Penetration	Water height: 1m Sample length: 3m Time: 24H		IEC 60794-1-22 Method F5B	No water leakage
* values for single-mode fibres, all optical measurements performed at 1550 nm.				

Environmental Temperature

Items	Value
Installation temperature	-10 °C to +60 °C
Operation temperature	-40 °C to +70 °C
Storage temperature	-40 °C to +70 °C

Identification

Unless otherwise specified, the cable sheath marking shall be as follows:

OPTICAL CABLE D/125 AAA ##F DUCT CABLE PE YYWWD xxxxM *****

- Ink Color: White
- D/125: is the optical fiber core size where OM1 will be printed 62.5/125, OM2, OM3, OM4, OM5 will be printed 50/125. ITU-T G.652.D, G.657.A1, G.657.A2 will be printed 9/125
- AAA: is the fiber Type OM1, OM2, OM3, OM4,OM5, G.652.D, G.657.A1 or G.657.A2
- ##F: is the optical fiber count
- YYWWD: Year + Week + Day
- xxxxM: Sequential meter marking, Interval: 1m
- *****: Cable Reel No., Per Manufacturer or owner

Jacket Color

The outer sheath colour are black.

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 4km with a tolerance of $\pm 5\%$.

Chemical Characteristics

Free of hazardous substances according to RoHS 2015/863/EU

Revision History

Revision	Date	Changes
1	2025.09.26	Initial release

Rev.	Draft	Date	Check	Date	Approved	Date
1	Tina	2025.09.26	Rafael	2025.09.26	Martina	2025.09.26