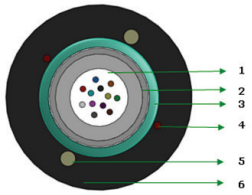
SINGLEMODE FIBER

OUTDOOR CABLE

NCB-FS09O-AULS-YY

D-Link AltraNET series



1. LOOSE TUBE WITH FIBRES & GEL
2. WATER SWELLABLE TAPE
3. STEEL TAPE ARMOR
4. RIPCORD(S)
5. EMBEDDED STRENGTH MEMBER
6. OUTER SHEATH

D-Link Uni tube Single Jacket Steel Tape Armored Cables is a central tube cable using optical fibers presented in loose tube and surrounded by Steel Tape armor. To protect the optical fibers from water ingress, the tube is filled with a thixotropic gel, and is enclosed in a thermoplastic sheath. The cables have embedded strength members for anti buckling property. The cables can also be offered with steel wire as embedded strength member to provide higher tensile strength

FEATURES & BENEFITS

- Steel tape adds to crush resistance as well as can be used as a cable locator after installation
- Cables are rodent protected
- Easily removable rugged jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters
- 24F Available with Black color ring marking over fiber design

PHYSICAL CHARACTERISTICS

Fibre Count	2~24
Fibre Type	SM – G652D
Tube Size (mm) Thermoplastic Material	3.0 mm Nominal
Moisture Barrier	Water Blocking Tape below the steel tape
Metallic Armouring	Corrugated Steel Tape (0.150 +/-0.015 mm Thickness)
Embedded Strength Member	Steel Wire to provide tensile strength and anti-buckling properties (1.1 mm nominal OD)
No of Ripcords	2
Outer Sheath Material	UV protected LSZH
Nominal Sheath Thickness (mm)	2.1 mm Nominal

MECHANICAL &ENVIRONMENTAL CHARACTERISTICS

Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	Installation - 2700N & Operational - 900N
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	2200
Impact Strength (Nm)	IEC-60794-1-21-E4	25
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	10 D
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m samples, 24 h (Over the Loose Tube)
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 h
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be </= 0.15 dB/km for SM & </= 0.5 dB/km for MM Fiber type
Installation		-20°C to +60°C
Service & Storage		-40°C to +70°C

SINGLEMODE FIBER

OUTDOOR CABLE

NCB-FS09O-AULS-YY

D-Link AltraNET series

CABLE CHARACTERISTICS

Fibre Count	Fibre Per Tube	No of Tubes	Tube Colour	Sheath Colour	Fibre Colour	Cable Diameter	Weight of Cable	Cable Length in one Reel
						(mm)	(kg/km)	KM
4	4	1	White	Black	BL, OR, GR, BR.	9.2 ± 0.5	120 ±10%	2/4 ± 5%
6	6	1	White	Black	BL, OR, GR, BR, SL, WH	9.2 ± 0.5	120 ±10%	2/4 ± 5%
8	8	1	White	Black	BL, OR, GR, BR, SL, WH, RD, BK.	9.2 ± 0.5	120 ±10%	2/4 ± 5%
12	12	1	White	Black	BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, PK, AQ.	9.2 ± 0.5	120 ±10%	2/4 ± 5%
24	24	1	White	Black	BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, PK, AQ, BL*, OR*, GR*, BR*, SL*, WH*, RD*, NT*, YL*, VI*, PK*, AQ*.	9.2 ± 0.5	120 ±10%	2/4 ± 5%

Note:- Where BL=Blue,OR=Orange,GR=Green,BR=Brown,SL=Slate,WH=White,RD=Red,BK=Black,YL=Yellow,VI=Yellow,PK=Pink, & AQ=Aqua.

TRANSMISSION CHARACTERISTICS

Fiber type	Maximum Cabled Fiber Attenuation dB/km			
	850nm	1300nm	1310nm	1550nm
G652D	-	-	≤ 0.35	≤ 0.23
OM1	≤ 3.5	≤ 1.5	-	-
OM2	≤ 3.0	≤ 1.0	-	-
OM3	≤ 3.0	≤ 1.0	-	-
OM4	≤ 3.0	≤ 1.0	-	-

ORDERING INFORMATION

MODEL NAME	DESCRIPTION
NCB-FS09O-AULS-04	04 Core Single Mode Unitube Armoured Outdoor Fiber Cable - LSZH Sheath
NCB-FS09O-AULS-06	06 Core Single Mode Unitube Armoured Outdoor Fiber Cable - LSZH Sheath
NCB-FS09O-AULS-12	12 Core Single Mode Unitube Armoured Outdoor Fiber Cable - LSZH Sheath
NCB-FS09O-AULS-24	24 Core Single Mode Unitube Armoured Outdoor Fiber Cable - LSZH Sheath