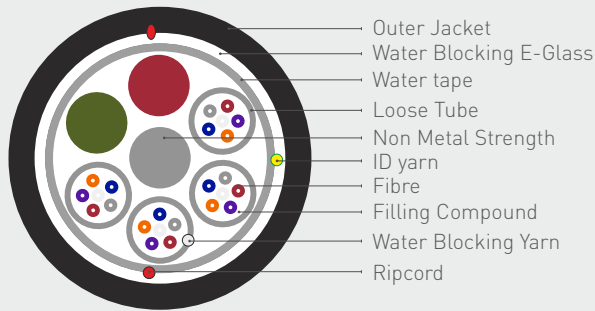
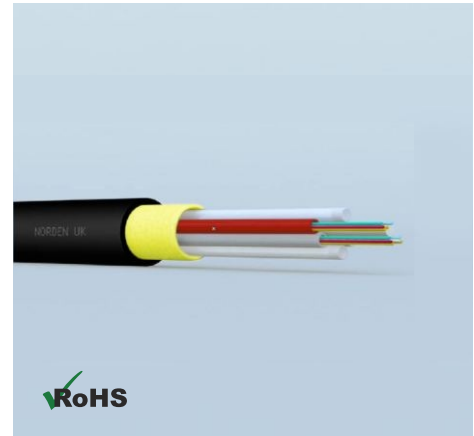


DIELECTRIC LOOSE TUBE WATER BLOCKING E GLASS IN/OUT CABLE

The cable is constructed with FRP Central Strength Member and PBT Loose tube with jelly compound. Water blocking e-glass, yarn and tape gives triple protection against water penetration. Non metal strength gives an excellent anti-electromagnet ability. Polyethylene/LSZH material is used as outer jacket.



COMPLIANCE

IEC60794-1, EN 187000
 ITU-T G652.B OS1
 ITU-T G652.D/G655/G657.A1/G657.A2 OS2
 ITU-T G651.1 OM1 OM2 OM3 OM4
 IEC60793-2-10 type A1a.1/A1b OM1/OM2
 IEC60793-2-10 type A1a.2 OM3
 IEC60793-2-10 type A1a.3 OM4
 ISO/IEC 11801 , ISO/IEC 24702
 IEEE 802.3z Gigabit Ethernet
 ANSI/TIA/EIA 568C.3
 ROHS compliant Directive 2002/95/EC

CONSTRUCTION

Central Strength Element	Fiber Re-inforced Plastic (FRP Rod with or without PE)
Water Protection	Water blocking yarn
Loose Tube & Fibers	Polybutylene Terephthalate (PBT) with Thixotropic jelly Filled
Core Make up	Possible Filler (PE)
Peripheral strength element	Glass Yarn (Water Blocking Type)
Stranded Cable Core	Loose tubes with fibers stranded around FRP
Core Wrapping	Water blocking tape with Polypropylene binders
Ripcord	Below sheath 2 No's
Outer sheath	UV rated PE/LSZH sheath- 1.8mm Nom. Black
UL Fire Rated	OFNR

MECHANICAL, OPTICAL & ENVIRONMENTAL CHARACTERISTICS

Characteristics	Short Term	Long Term
Max. Tensile Load	2000 N	1000 N
Max. Crush Load	2000 N/100 mm	1000 N/100 mm
Operating Temp.	-30°C to +70°C	
Storage Temp.	-40°C to +90°C	
Impact Resistance	5 Nm	

DIELECTRIC LOOSE TUBE WATER BLOCKING E GLASS IN/OUT CABLE

OPTICAL CHARACTERISTICS

Parameter	λ (nm)	G.652D
Attenuation Coefficient Cable Average (dB/Km)	1310	≤ 0.35
Attenuation Coefficient Cable Average (dB/Km)	1550	0.20
Attenuation Coefficient, Cable Max (dB/Km)	1550	≤ 0.22
Chromatic Dispersion (ps/nm·km)	1285-1330	≤ 3.5
Chromatic Dispersion (ps/nm·km)	1550	≤ 18
Mode Field Diameter (mm)	1310	9.2 ± 0.4
Mode Field Non-circularity error	-	$\leq 6\%$
Cladding Non-circularity error	-	$\leq 7\%$
C.C.E (mm)	-	≤ 0.5
Cable Cutoff Wavelength	-	≤ 1260
Cladding Diameter (mm)	-	125 ± 0.3
Coating Diameter (mm)	-	245 ± 10

ANSI/TIA/EIA-598-B STANDARD FIBRE COLOR CODE

Fibre Number	Fibre Color	Fibre Number	Fibre Color
Fibre 1	Blue	Fibre 7	Red
Fibre 2	Orange	Fibre 8	Black
Fibre 3	Green	Fibre 9	Yellow
Fibre 4	Brown	Fibre 10	Violet
Fibre 5	Slate	Fibre 11	Rose
Fibre 6	White	Fibre 12	Aqua

ORDERING INFORMATION

Part Number	Fibre Count	Outer Diameter (mm)	No. of Filler	Loose Tube Diameter (mm)	Cable Weight (kg/km)	Bend Radius	
						Short (mm)	Long (mm)
3144-31012FXXCL	12	11.0	5	5	75	20D	10D
3144-31024FXXCL	24	11.0	4	5	75	20D	10D
3144-31036FXXCL	36	11.0	3	5	75	20D	10D
3144-31048FXXCL	48	11.0	2	5	75	20D	10D
3144-31060FXXCL	60	11.0	1	5	75	20D	10D
3144-31072FXXCL	72	11.0	0	5	75	20D	10D

DIELECTRIC LOOSE TUBE WATER BLOCKING E GLASS IN/OUT CABLE

ORDERING GUIDE

Cable Type	Jacket	Fibre/ Tube	Fibre Count	Fibre Type (FXX)	Jacket Colour (CL)
3144	1 = PVC 2 = LSZH 3 = PE	1 = 12F/T 2 = 08 F/T 3 = 06 F/T 4 = 04 F/T	No. of Fibre	OM1 = 62.5/125 OM1 OM2 = 50/125 OM2 OM3 = 50/125 OM3 OM4 = 50/125 OM4 OS1 = 9/125 (G652.B) OS1 OS2 = 9/125 (G652.D) OS2 500 = 9/125 (G655) OS2 7A1 = 9/125 (G657.A1) Os2 7A2 = 9/125 (G657.A2) OS2	As noted

CL: BK(Black), OR(Orange), YL(Yellow), GN(Green), AQ(Aqua), RD(Red), BL(Blue)

PACKING INFORMATION

Part Number	Packing Length	Packing Mode	N.W (kg)	G.W (kg)	Dimension (cm)
3144-31012FXXCL	2500 x 1	Wooden Drum	180	230	105 x 105 x 55
3144-31024FXXCL	2500 x 1	Wooden Drum	180	230	105 x 105 x 55
3144-31036FXXCL	2500 x 1	Wooden Drum	180	230	105 x 105 x 55
3144-31048FXXCL	2500 x 1	Wooden Drum	180	230	105 x 105 x 55
3144-31060FXXCL	2500 x 1	Wooden Drum	180	230	105 x 105 x 55
3144-31072FXXCL	2500 x 1	Wooden Drum	180	230	105 x 105 x 55