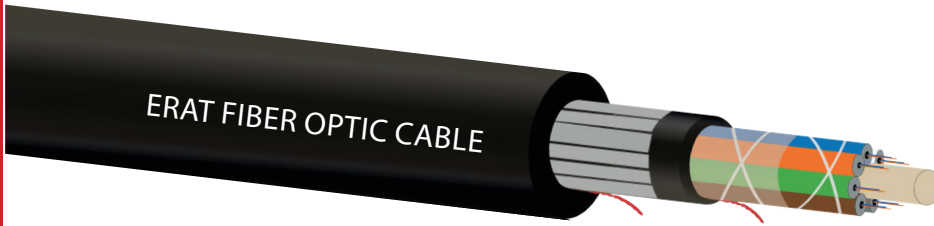


MULTI TUBE FIBER OPTIC CABLES DJNMA - JELLY - LSZH - HFFR - PE
A-DFH(ZN)2Y
IEC 60793-1-2, IEC 60794-3-12
Multi Tube, Non-Metallic ,Double Sheathed, Jelly Filling Fiber Optic Cables



APPLICATIONS	CONSTRUCTION
Internal and external for short distance and heavy working conditions in communication networks, campus backbone structure HDPE etc. in external applications. It is used in a pipe made of material or buried directly in the ground.	Dyed fibers are placed in loose tubes, It is bent around the FRP element using the SZ bending method, then coated with LSZH/HFFR intermediate Sheath along with the gel. Self support is provided with a sufficient amount of glass yarn. Sheathed with MDPE/HDPE material.

PHYSICAL PROPERTIES	
Fiber Type	SM 9/125 G652 D, G657 A1, G657 A2, G657 B3, G655 MM 62.5/125 OM1, 50/125 OM2, 50/125 OM3, 50/125 OM4 , 50/125 OM5
Tube Material	PBT & PBT+PC
Tube Filling Compound	Thixotropic Jelly
Jelly Compound	Petroleum Filler Jelly
Filling Material	Polyester Tape
Strength Member	Glass Yarn
Inner Sheath	Black-LSZH/HFFR
Ripcord Type	Aramid Yarn Ripcord
Outer Jacket	Black-MDPE/HDPE

MECHANICAL AND ENVIRONMENTAL PROPERTIES		
Physical Tests	Values	Standards
Tensile Strength (Working)	1500 N	IEC 60794-1-2 E1
Tensile Strength (Assembly)	2500 N	IEC 60794-1-2 E1
Impact Strength	10 J, 3 impacts	IEC 60794-1-2 E4
Crushing Strength	2000 N / 10 cm	IEC 60794-1-2 E3
Water Tightness	24 hours 3 m length	IEC 60794-1-2 F5
Bending Radius	20 x cable diameter	IEC 60794-1-2 E11
Operating Temperature	-40 to +80 °C	IEC 60794-1-2 F1
Storage Temperature	-40 to +80 °C	IEC 60794-1-2 F1

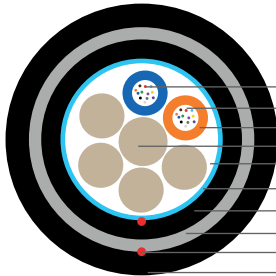
SHEATH MARKING, PACKAGING INFORMATION	
Marking	Erat Cable <Production Year> <Fiber Number and Type> <Meter>
Packaging	2000 mt ±%5
Packaging Information	Wooden Reel

TECHNICAL DATA

Fiber Count	Tube Count	Filler Count	Tube Diameter (mm)	Cable Diameter (mm)	Approximate Weight (kg/km)
24	2	4	1.85±0.05	11.6±0.5	125
24	6	0	1.85±0.05	11.6±0.5	127
48	4	2	1.85±0.05	11.6±0.5	126
48	6	0	1.85±0.05	11.6±0.5	128
72	6	0	1.85±0.05	11.6±0.5	128
96	8	0	1.85±0.05	12.6±0.5	159
144	12	0	1.85±0.05	15.2±0.5	211
288	24	0	2.1±0.05	18.6±0.5	328

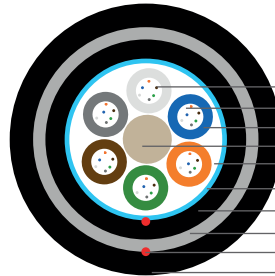
CONSTRUCTION

24 Fiber 2x12



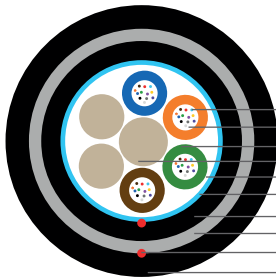
Optical Fiber
Thixotropic Jelly
Loose Tube
FRP
Jelly Filling
Polyester Tape
LSZH/HFFR Inner Sheath
Glass Yarn
Ripcord
MDPE/HDPE Outer Jacket

24 Fiber 6x4



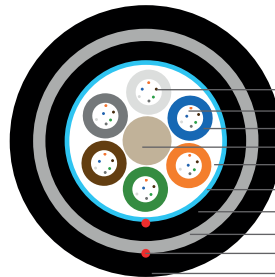
Optical Fiber
Thixotropic Jelly
Loose Tube
FRP
Jelly Filling
Polyester Tape
LSZH/HFFR Inner Sheath
Glass Yarn
Ripcord
MDPE/HDPE Outer Jacket

48 Fiber 4x12



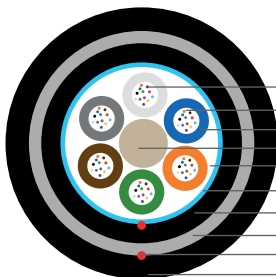
Optical Fiber
Thixotropic Jelly
Loose Tube
FRP
Jelly Filling
Polyester Tape
LSZH/HFFR Inner Sheath
Glass Yarn
Ripcord
MDPE/HDPE Outer Jacket

48 Fiber 6x8



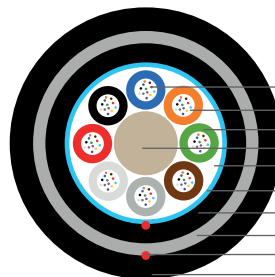
Optical Fiber
Thixotropic Jelly
Loose Tube
FRP
Jelly Filling
Polyester Tape
LSZH/HFFR Inner Sheath
Glass Yarn
Ripcord
MDPE/HDPE Outer Jacket

72 Fiber 6x12



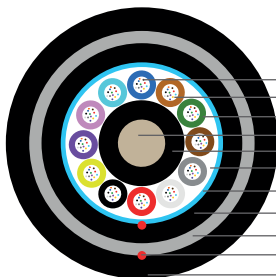
Optical Fiber
Thixotropic Jelly
Loose Tube
FRP
Jelly Filling
Polyester Tape
LSZH/HFFR Inner Sheath
Glass Yarn
Ripcord
MDPE/HDPE Outer Jacket

96 Fiber 8x12



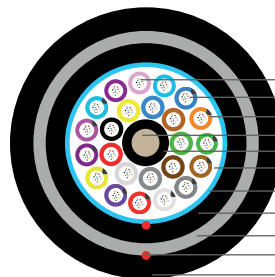
Optical Fiber
Thixotropic Jelly
Loose Tube
FRP
Jelly Filling
Polyester Tape
LSZH/HFFR Inner Sheath
Glass Yarn
Ripcord
MDPE/HDPE Outer Jacket

144 Fiber 12x12



Optical Fiber
Thixotropic Jelly
Loose Tube
FRP
FRP Coating
Jelly Filling
Polyester Tape
LSZH/HFFR Inner Sheath
Glass Yarn
Ripcord
MDPE/HDPE Outer Jacket

288 Fiber 24x12



Optical Fiber
Thixotropic Jelly
Loose Tube
FRP
FRP Coating
Jelly Filling
Polyester Tape
LSZH/HFFR Inner Sheath
Glass Yarn
Ripcord
MDPE/HDPE Outer Jacket

FIBER COLOR CODE / TIA-598 - A							
	1- Blue		7- Red		13- Blue / Black Stripes		19- Red / Black Striped
	2- Orange		8- Black		14- Orange / Black Stripes		20- Natural
	3- Green		9- Yellow		15- Green / Black Stripes		21- Yellow / Black Striped
	4- Brown		10- Violet		16- Brown / Black Stripes		22- Violet / Black Striped
	5- Grey		11- Pink		17- Grey / Black Striped		23- Pink / Black Striped
	6- White		12- Aqua		18- White / Black Striped		24- Aqua / Black Striped

COLOR OF LOOSE TUBES / TIA-598											
1	2	3	4	5	6	7	8	9	10	11	12
											
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Note: Black striped for more than 12 tubes