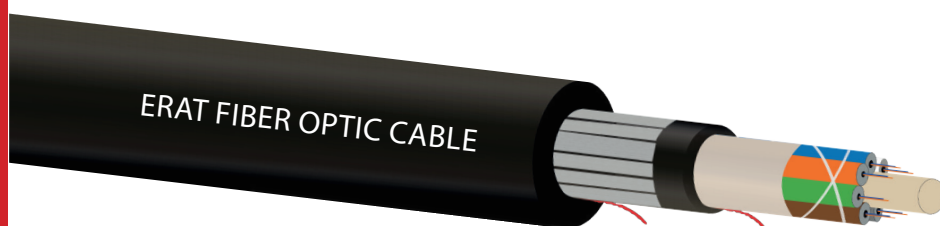


# MULTI TUBE FIBER OPTIC CABLES DJNMA - GLASS YARN - DRY - PE

A-DQ2Y(ZN)2Y

IEC 60793-1-2, IEC 60794-3-12

Multi Tube, Non-Metallic, Double Sheathed, DRY 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, twisted around the FRP element using the SZ twisting method, then covered with intermediate sheath along with Water Blocking Tape. Self supporting with sufficient amount of glass yarn is provided. 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
Filling Material	Water Blocking Tape
Strength Member	Glass Yarn
Inner Sheath	Black-LLDPE Sheath
Ripcord Type	Polyester 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	109
24	6	0	1.85±0.05	11.6±0.5	111
48	4	2	1.85±0.05	11.6±0.5	112
48	6	0	1.85±0.05	11.6±0.5	111
72	6	0	1.85±0.05	11.6±0.5	113
96	8	0	1.85±0.05	12.6±0.5	141
144	12	0	1.85±0.05	15.2±0.5	186
288	24	0	2.1±0.05	18.6±0.5	259

CONSTRUCTION

<p>24 Fiber 2x12</p> <ul style="list-style-type: none"> <li>Optical Fiber</li> <li>Thixotropic Jelly</li> <li>Loose Tube</li> <li>FRP</li> <li>Water Blocking Tape</li> <li>LLDPE Inner Sheath</li> <li>Glass Yarn</li> <li>Ripcord</li> <li>MDPE/HDPE Outer Jacket</li> </ul>	<p>24 Fiber 6x4</p> <ul style="list-style-type: none"> <li>Optical Fiber</li> <li>Thixotropic Jelly</li> <li>Loose Tube</li> <li>FRP</li> <li>Water Blocking Tape</li> <li>LLDPE Inner Sheath</li> <li>Glass Yarn</li> <li>Ripcord</li> <li>MDPE/HDPE Outer Jacket</li> </ul>
<p>48 Fiber 4x12</p> <ul style="list-style-type: none"> <li>Optical Fiber</li> <li>Thixotropic Jelly</li> <li>Loose Tube</li> <li>FRP</li> <li>Water Blocking Tape</li> <li>LLDPE Inner Sheath</li> <li>Glass Yarn</li> <li>Ripcord</li> <li>MDPE/HDPE Outer Jacket</li> </ul>	<p>48 Fiber 6x8</p> <ul style="list-style-type: none"> <li>Optical Fiber</li> <li>Thixotropic Jelly</li> <li>Loose Tube</li> <li>FRP</li> <li>Water Blocking Tape</li> <li>LLDPE Inner Sheath</li> <li>Glass Yarn</li> <li>Ripcord</li> <li>MDPE/HDPE Outer Jacket</li> </ul>
<p>72 Fiber 6x12</p> <ul style="list-style-type: none"> <li>Optical Fiber</li> <li>Thixotropic Jelly</li> <li>Loose Tube</li> <li>FRP</li> <li>Water Blocking Tape</li> <li>LLDPE Inner Sheath</li> <li>Glass Yarn</li> <li>Ripcord</li> <li>MDPE/HDPE Outer Jacket</li> </ul>	<p>96 Fiber 8x12</p> <ul style="list-style-type: none"> <li>Optical Fiber</li> <li>Thixotropic Jelly</li> <li>Loose Tube</li> <li>FRP</li> <li>Water Blocking Tape</li> <li>LLDPE Inner Sheath</li> <li>Glass Yarn</li> <li>Ripcord</li> <li>MDPE/HDPE Outer Jacket</li> </ul>
<p>144 Fiber 12x12</p> <ul style="list-style-type: none"> <li>Optical Fiber</li> <li>Thixotropic Jelly</li> <li>Loose Tube</li> <li>FRP</li> <li>FRP Coating</li> <li>Water Blocking Tape</li> <li>LLDPE Inner Sheath</li> <li>Glass Yarn</li> <li>Ripcord</li> <li>MDPE/HDPE Outer Jacket</li> </ul>	<p>288 Fiber 24x12</p> <ul style="list-style-type: none"> <li>Optical Fiber</li> <li>Thixotropic Jelly</li> <li>Loose Tube</li> <li>FRP</li> <li>FRP Coating</li> <li>Water Blocking Tape</li> <li>LLDPE Inner Sheath</li> <li>Glass Yarn</li> <li>Ripcord</li> <li>MDPE/HDPE Outer Jacket</li> </ul>

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