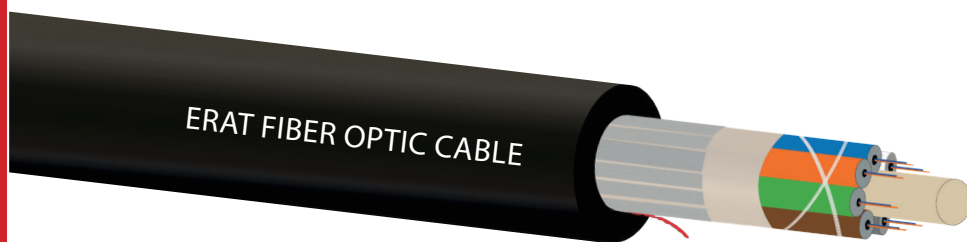


MULTI TUBE FIBER OPTIC CABLES SJNMA- DRY - LSZH-HFFR

U-DQ(ZN)H

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

Multi Tube, Non-Metallic, Single Sheathed, DRY Fiber Optic Cables



| APPLICATIONS | CONSTRUCTION |
|--|---|
| HDPE in long distance and local communication networks, etc. it is used in pipes made of material. | Fiber dyed into Loose tubes it is placed, then bent by the SZ method and sheathed with a sufficient amount of glass yarn together with LSZH-HFFR material. It has the property of water blocking. |

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 |
| Ripcord Type | Polyester Ripcord |
| Outer Jacket | Black-LSZH-HFFR |

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 +70 °C | IEC 60794-1-2 F1 |
| Storage Temperature | -40 to +70 °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 | 9.4±0.5 | 97 |
| 24 | 6 | 0 | 1.85±0.05 | 9.4±0.5 | 99 |
| 48 | 4 | 2 | 1.85±0.05 | 9.4±0.5 | 100 |
| 48 | 6 | 0 | 1.85±0.05 | 9.4±0.5 | 99 |
| 72 | 6 | 0 | 1.85±0.05 | 9.4±0.5 | 100 |
| 96 | 8 | 0 | 1.85±0.05 | 10.4±0.5 | 128 |
| 144 | 12 | 0 | 1.85±0.05 | 12.8±0.5 | 172 |
| 288 | 24 | 0 | 2.1±0.05 | 16.3±0.5 | 251 |

CONSTRUCTION

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