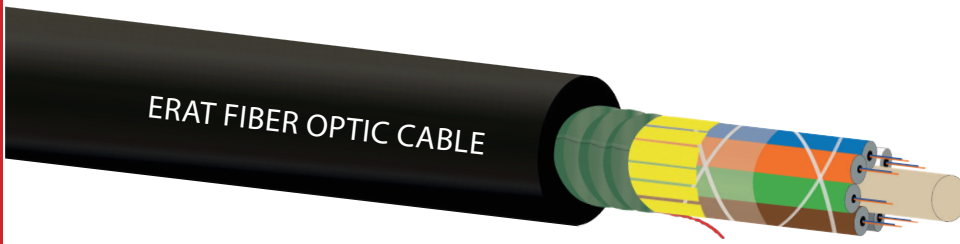


MULTI TUBE FIBER OPTIC CABLES SJCSA- JELLY - ARAMID YARN -LSZH-HFFR
U-DF(ZN)(SR)H
IEC 60793-1-2, IEC 60794-3-12
Multi Tube, Corrugated Steel Tape, Single Sheathed, Jelly Filling Fiber Optic Cables



| APPLICATIONS | CONSTRUCTION |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable duct or cable in indoor communication networks It is used in pans. | Dyed fibers are placed in Loose Tubes, then they are twisted with the SZ method and Aramid Yarn is placed together. It is applied as Corrugated Steel Tape Armor. Sheathed with LSZH-HFFR material. It has water blocking feature. |

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 | Aramid Yarn |
| Armor Material | Corrugated Steel Tape |
| Ripcord Type | Aramid Yarn |
| 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 | 10.8±0.5 | 151 |
| 24 | 6 | 0 | 1.85±0.05 | 10.8±0.5 | 153 |
| 48 | 4 | 2 | 1.85±0.05 | 10.8±0.5 | 153 |
| 48 | 6 | 0 | 1.85±0.05 | 10.8±0.5 | 154 |
| 72 | 6 | 0 | 1.85±0.05 | 10.8±0.5 | 155 |
| 96 | 8 | 0 | 1.85±0.05 | 11.5±0.5 | 183 |
| 144 | 12 | 0 | 1.85±0.05 | 14.2±0.5 | 244 |
| 288 | 24 | 0 | 2.1±0.05 | 17.5±0.5 | 302 |

CONSTRUCTION

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>24 Fiber 2x12</p> <ul style="list-style-type: none"> Optical Fiber Thixotropic Jelly Loose Tube FRP Jelly Filling Polyester Tape Aramid Yarn Corrugated Steel Tape Ripcord LSZH/HFFR Outer Jacket | <p>24 Fiber 6x4</p> <ul style="list-style-type: none"> Optical Fiber Thixotropic Jelly Loose Tube FRP Jelly Filling Polyester Tape Aramid Yarn Corrugated Steel Tape Ripcord LSZH/HFFR Outer Jacket |
| <p>48 Fiber 4x12</p> <ul style="list-style-type: none"> Optical Fiber Thixotropic Jelly Loose Tube FRP Jelly Filling Polyester Tape Aramid Yarn Corrugated Steel Tape Ripcord LSZH/HFFR Outer Jacket | <p>48 Fiber 6x8</p> <ul style="list-style-type: none"> Optical Fiber Thixotropic Jelly Loose Tube FRP Jelly Filling Polyester Tape Aramid Yarn Corrugated Steel Tape Ripcord LSZH/HFFR Outer Jacket |
| <p>72 Fiber 6x12</p> <ul style="list-style-type: none"> Optical Fiber Thixotropic Jelly Loose Tube FRP Jelly Filling Polyester Tape Aramid Yarn Corrugated Steel Tape Ripcord LSZH/HFFR Outer Jacket | <p>96 Fiber 8x12</p> <ul style="list-style-type: none"> Optical Fiber Thixotropic Jelly Loose Tube FRP Jelly Filling Polyester Tape Aramid Yarn Corrugated Steel Tape 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 Jelly Filling Polyester Tape Aramid Yarn Corrugated Steel Tape 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 Jelly Filling Polyester Tape Aramid Yarn Corrugated Steel Tape 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