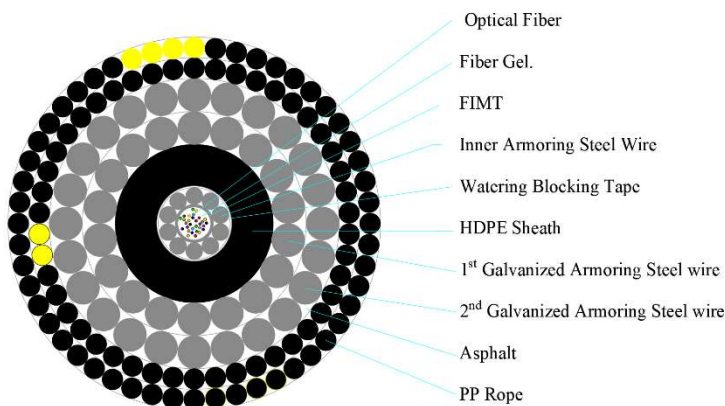




# ChimeraX™ 144F G652D Submarine Cable

SST Unitube Triple Layers Steel Wire Armor P/N 2601DD0(82)150S2(22)



## Flame Resistant

No Request

## Design Reference

IEC 60793-1-1&2

IEC 60793-2-50

IEC 60794-1-1

IEC 60794-1-2

IEC 60794-1-21/22/23

IEC 60794-3

IEC 60794-3-30

ITU-T G.652

## Application

Under the sea or river

## Working Conditions

Storage Temperature

-30°C ~ +60°C

Installation Temperature:

-15°C ~ +45°C

Operation Temperature

-0°C ~ +30°C (In water)

-40°C ~ +70°C (In air)

## Min. Allowable

## Bending Radius

>1 Meter (No tensile load)

>1.2 Meter (With tensile load)

## Technical data

|                                      |                            |
|--------------------------------------|----------------------------|
| Number of Fibers                     | 144                        |
| Fiber Type                           | G652D                      |
| Fiber Tube                           | Stainless Steel Tube (SST) |
| SST OD                               | mm 6.0                     |
| Inner Armor (1 <sup>st</sup> Layer)  | φ2.5 Galvanized Steel Wire |
| No. of Steel Wire                    | 10                         |
| Inner Sheath                         | HDPE                       |
| Middle Armor (2 <sup>nd</sup> Layer) | φ3.5 Galvanized Steel Wire |
| No. of Steel Wire                    | 16                         |
| Outer Armor (3 <sup>rd</sup> Layer)  | φ3.5 Galvanized Steel Wire |
| No. of Steel Wire                    | 22                         |
| Outer Sheath                         | PP Yarns                   |
| PP Yarns Sheath Thickness            | mm 3.4                     |
| Overall Diameter (Nom.)              | mm 36                      |
| Weight (In Air)                      | kg/m 3.75±0.2              |
| Weight (In Seawater)                 | kg/m 2.7±0.2               |

## Fiber Chromatogram

|       |      |        |        |        |       |       |                           |
|-------|------|--------|--------|--------|-------|-------|---------------------------|
| No.   | 1    | 2      | 3      | 4      | 5     | 6     | Fiber No.<br>1-12 No Ring |
| Color | Blue | Orange | Green  | Brown  | Slate | White |                           |
| No.   | 7    | 8      | 9      | 10     | 11    | 12    |                           |
| Color | Red  | Black  | Yellow | Violet | Pink  | Aqua  |                           |



|                                                                                                             |      |  |  |        |  |  |        |  |  |        |  |  |       |  |  |       |  |  |
|-------------------------------------------------------------------------------------------------------------|------|--|--|--------|--|--|--------|--|--|--------|--|--|-------|--|--|-------|--|--|
| No.                                                                                                         | 1    |  |  | 2      |  |  | 3      |  |  | 4      |  |  | 5     |  |  | 6     |  |  |
| Color                                                                                                       | Blue |  |  | Orange |  |  | Green  |  |  | Brown  |  |  | Slate |  |  | White |  |  |
| No.                                                                                                         | 7    |  |  | 8      |  |  | 9      |  |  | 10     |  |  | 11    |  |  | 12    |  |  |
| Color                                                                                                       | Red  |  |  | Black  |  |  | Yellow |  |  | Violet |  |  | Pink  |  |  | Aqua  |  |  |
| Fiber No. 13-24 1 Ring-100 , 37~48 1 Ring-60, 49~60 1 Ring-150, 73~84 1 Ring-200, 85~96 1 Ring-250          |      |  |  |        |  |  |        |  |  |        |  |  |       |  |  |       |  |  |
| No.                                                                                                         | 1    |  |  | 2      |  |  | 3      |  |  | 4      |  |  | 5     |  |  | 6     |  |  |
| Color                                                                                                       | BL   |  |  | OG     |  |  | GN     |  |  | BN     |  |  | ST    |  |  | WT    |  |  |
| No.                                                                                                         | 7    |  |  | 8      |  |  | 9      |  |  | 10     |  |  | 11    |  |  | 12    |  |  |
| Color                                                                                                       | RD   |  |  | BK     |  |  | YL     |  |  | VT     |  |  | PK    |  |  | AQ    |  |  |
| Fiber No. 25~36 2 Rings-150, 61~72 2 Rings-200, 97~108 2 Rings-60, 109~120 2 Rings-100, 121~132 2 Rings-250 |      |  |  |        |  |  |        |  |  |        |  |  |       |  |  |       |  |  |
| No.                                                                                                         | 1    |  |  | 2      |  |  | 3      |  |  | 4      |  |  | 5     |  |  | 6     |  |  |
| Color                                                                                                       | BL   |  |  | OG     |  |  | GN     |  |  | BN     |  |  | ST    |  |  | WT    |  |  |
| No.                                                                                                         | 7    |  |  | 8      |  |  | 9      |  |  | 10     |  |  | 11    |  |  | 12    |  |  |
| Color                                                                                                       | RD   |  |  | BK     |  |  | YL     |  |  | VT     |  |  | PK    |  |  | AQ    |  |  |
| Fiber No. 133~144 3 Rings-100                                                                               |      |  |  |        |  |  |        |  |  |        |  |  |       |  |  |       |  |  |

Ps: X Rings-YYY. X means the black ring quantity. YYY means the distance between the adjacent rings, unit in mm.

## Mechanical Property

| No. | Technical Parameter                        | Unit | Designed Value |
|-----|--------------------------------------------|------|----------------|
| 1   | The cable breaking load (CBL) Nom.         | kN   | 510            |
| 2   | The transient tensile strength (NTTS) Nom. | kN   | 310            |
| 3   | The operating tensile strength (NOTS) Nom. | kN   | 180            |
| 4   | Permanent Tensile Load (NPTS) Nom.         | kN   | 100            |

## Shipping Information

Packing Method

Metal Drum with both end of cable sealed with plastic cap

Delivery Length

As per customer requirement

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Phone +65 66921168  
42 Emerald Hill Road, Singapore



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