

# Loose Tube Fibre Optic Outdoor Cable

6 Element Dry Core Design

**MiDia<sup>®200</sup> Armour**



FURUKAWA  
SOLUTIONS

Issue July 2024

according to OFS FURUKAWA SOLUTIONS Generic Specification



### Design

- Optical Fibres 200 µm
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocking Material
- Inner PE-Jacket
- Corrugated Steel Tape
- Ripcords
- Outer PE-Jacket

### Features

- Armour Cable – high mechanical protection and effective barrier against rodents and lightning
- Dry Core Design – Cable core water blocked by means of dry “water swellable” technology - for quicker, cleaner cable prep for jointing
- Small tubes for a reduced outer diameter
- 24 Fibres per Buffer Tube
- Two Layer Design for a smaller cable diameter and less cable weight
- Individual coloured tubes

Version illustrated is the 864 Fibre Cable

| Fibre Count | Tubes | Core Design | Outer Diameter [mm] | Cable Weight [kg/km] | Standard Length [m] | AT-Code**            |
|-------------|-------|-------------|---------------------|----------------------|---------------------|----------------------|
| 864         | 36    | 1+36        | 22.9                | 455                  | 2000 / 4000         | AT-[ ][ ][ ]NFCF-864 |

This table shows nominal diameter and weight values which may differ in shipments.

\*\*Please refer to the OFS FURUKAWA SOLUTIONS AT- Code. The blanks specify the fiber type.

## Identification

### Fibre Colour Code:

|    |         |    |           |    |           |    |           |    |         |    |          |
|----|---------|----|-----------|----|-----------|----|-----------|----|---------|----|----------|
| 1  | Blue    | 2  | Orange    | 3  | Green     | 4  | Brown     | 5  | Grey    | 6  | White    |
| 7  | Red     | 8  | Black     | 9  | Yellow    | 10 | Violet    | 11 | Rose    | 12 | Aqua     |
| 13 | Blue*** | 14 | Orange*** | 15 | Green***  | 16 | Brown***  | 17 | Grey*** | 18 | White*** |
| 19 | Red***  | 20 | Natural   | 21 | Yellow*** | 22 | Violet*** | 23 | Rose*** | 24 | Aqua***  |

\*\*\* Black Ring

### Tube Colour Code inner Layer (15 tubes):

|       |      |       |        |       |        |    |        |    |      |    |       |
|-------|------|-------|--------|-------|--------|----|--------|----|------|----|-------|
| 1+13* | Blue | 2+14* | Orange | 3+15* | Green  | 4  | Brown  | 5  | Grey | 6  | White |
| 7     | Red  | 8     | Black  | 9     | Yellow | 10 | Violet | 11 | Rose | 12 | Aqua  |

### Tube Colour Code outer Layer (21 tubes):

|       |      |       |        |       |        |        |        |       |      |       |       |
|-------|------|-------|--------|-------|--------|--------|--------|-------|------|-------|-------|
| 1+13* | Blue | 2+14* | Orange | 3+15* | Green  | 4+16*  | Brown  | 5+17* | Grey | 6+18* | White |
| 7+19* | Red  | 8     | Black  | 9+20* | Yellow | 10+21* | Violet | 11    | Rose | 12    | Aqua  |

\* Tube marked with black marker

Alternative tube and fibre colour code available on request

# Loose Tube Fibre Optic Outdoor Cable

6 Element Dry Core Design

**MiDia<sup>®200</sup> Armour**



FURUKAWA  
SOLUTIONS

Issue July 2024

according to **OFS FURUKAWA SOLUTIONS Generic Specification**

## Sheath Marking

**OFS OPTICAL CABLE MIDIA200 ARMOUR [ID] [MM/YYYY] [Handset Sign] 864F [Meter Marking]**

Alternative sheath printing available on request.

In case of order the exact sheath printing text will be clarified with the customer.

## Mechanical Properties and Environmental Behaviour

Tests according to IEC 60794

|   | Parameter                               | Requirement  | Value  |
|---|---|--|--|
| <b>Tensile Performance:</b><br>IEC 60794-1-21-E1A and E1B | Long term load                          | - No attenuation increase*<br>- No fibre strain                                      | Load: 1340 N                                       |
|   | Short term load,<br>during installation | - No changes in attenuation<br>before versus after load<br>- Max. fibre strain 0.33% | Load: 1.0 x W<br>W is the weight of the cable in N |
| <b>Crush Performance:</b><br>IEC 60794-1-21-E3A           | Long term load                          | - No attenuation increase*   | Load (Plate / Plate): 1500 N                       |
|   | Short term load                         | - No changes in attenuation<br>before versus after load<br>- No damage**             | Load (Plate / Plate): 3000 N                       |
| <b>Bending Performance:</b><br>IEC 60794-1-21-E11         | Handling fixed installed                | - No attenuation increase*   | Bend radius: 15x D                                 |
|   | During installation<br>(under load)     | - No changes in attenuation<br>before versus after load                              | Bend radius: 25x D<br>D is the cable diameter      |
| <b>Temperature Performance:</b><br>IEC 60794-1-22-F1      | Operation                               | - No attenuation increase*   | -30 to +70°C                                       |
|   | Installation                            |  | -15 to +40°C                                       |
|   | Storage/Shipping                        |  | -40 to +70°C                                       |

\*No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The total uncertainty of measurement shall be less than of equal to 0.05 dB.

\*\*Mechanical damage – when examined visually without magnification, there shall be no evidence of damage to the sheath. The imprint of plates will not be considered as damage.

## Shipping Information

| Cable Length | Drum Dimensions (approx.) |         | Shipping Weight (calc.) |
|--------------|---------------------------|---------|-------------------------|
|              | Diameter                  | Width   | Cable + Drum            |
| 2 Km         | 1700 mm                   | 1060 mm | 1080 Kg                 |
| 4 Km         | 2350 mm                   | 1410 mm | 2270 Kg                 |

The shipping information are given for one-way reels. Reusable reels are available on request.

The information is believed to be accurate at time of issue.

OFS FURUKAWA SOLUTIONS reserves the right to improve, enhance and modify the features and specifications of OFS FURUKAWA SOLUTIONS products without prior notification.

Please ensure you have the latest version of the data sheet.

This data sheet is property of OFS FURUKAWA SOLUTIONS.

For additional information please contact your sales representative.

You can also visit our website at <http://www.ofsoptics.com>.

Email: [cableinfo@ofsoptics.com](mailto:cableinfo@ofsoptics.com)

MiDia is a registered trademark of Fitel USA Corp.

