

## SPARX® Fiber optic cable Multi-mode OM4, Indoor/Outdoor, 4 core, Tight Buffer, LSZH, Non-Armoured

MODEL NUMBER : FCSPARX-M41T3NNS004F



### Specifications :

| Product Classification         |                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| Regional Availability          | Asia   Europe   Middle East   Africa                                                                           |
| Portfolio                      | SPARX®                                                                                                         |
| Product Type                   | Fiber Indoor/Outdoor cable                                                                                     |
| Product Series                 | MM Fiber                                                                                                       |
| General Specifications         |                                                                                                                |
| Subunit Type                   | Gel-free                                                                                                       |
| Flame Rating                   | Flame-retardant   non-corrosive/low-smoke   zero-halogen (FRNC/LSZH) material                                  |
| Cable Type                     | Tight Buffer Tube                                                                                              |
| Construction Type <sup>1</sup> | Non-armored                                                                                                    |
| Application                    | General building applications   General Purpose Horizontal   Vertical Riser   Indoor horizontal   Outdoor Duct |
| Cable Design                   |                                                                                                                |
| Fiber Count                    | 4                                                                                                              |

|                                         |                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------|
| Number of ripcords                      | 1 ripcord                                                                                    |
| Fibre colouring                         | Blue-orange-green-brown                                                                      |
| Fiber per tube                          | 1F                                                                                           |
| Outer jacket colour                     | Aqua.                                                                                        |
| Central element                         | Yarn                                                                                         |
| Outer Jacket Material                   | Flame-retardant   non-corrosive/low-smoke   silicon-free   zero-halogen (FRNC/LSZH) material |
| Mechanical Specifications               |                                                                                              |
| Minimum Bend Radius, operation          | 135 mm                                                                                       |
| Nominal outer diameter                  | 9.1 mm                                                                                       |
| Max. tensile strength for installation  | 2000 N                                                                                       |
| Crush resistance                        | 1500 N/10 cm                                                                                 |
| Minimum Bend Radius, installation       | 160 mm                                                                                       |
| Optical Specifications                  |                                                                                              |
| Fibre category                          | OM4                                                                                          |
| Maximum Attenuation                     | 3.0 dB/km / 1.0 dB/km                                                                        |
| Wavelengths                             | 850 nm / 1300 nm                                                                             |
| Fibre Type                              | Multimode                                                                                    |
| Fiber Core Diameter                     | 50 µm                                                                                        |
| Minimum Effective Modal Bandwidth (EMB) | 4700MHz/km                                                                                   |
| Min. Overfilled Launch (OFL) Bandwidth  | 3500 MHz*km / 500 MHz*km                                                                     |
| Environmental Specifications            |                                                                                              |
| Temperature range, installation         | -10 °C to 60 °C (14 °F to 140 °F )                                                           |
| Temperature range, operation            | -30 °C to 70 °C (-22 °F to 158 °F )                                                          |
| Temperature range, storage              | -40 °C to 70 °C (-40 °F to 158 °F ).                                                         |
| Regulatory Compliance/Certifications    |                                                                                              |

|                          |                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design and Test Criteria | ANSI/ICEA S-104-696   NFPA 262 (for plenum - riser and general building applications).                                                                                                                                           |
| ROHS                     | Free of hazardous substances according to RoHS 2011/65/EU                                                                                                                                                                        |
| Approvals and Listings   | Flame retardant according to IEC 60332-1-2 (single cable)   IEC 60332-3-24 (bunch of cables)   Low smoke according to IEC 61034   Non-corrosive according to IEC 60754-2   Reaction to fire according to EN 50575 and EN 13501-6 |