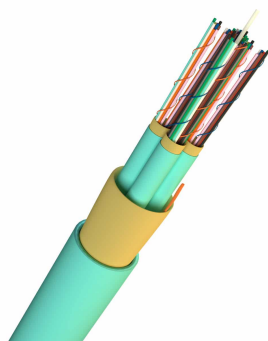


# SPARX® Fiber optic cable Multi-mode OM4, Indoor/Outdoor, 48 core, Loose Tube, LSZH, Non-Armoured

MODEL NUMBER : **FCSPARX-M41L3NNS048F**



## Specifications :

| Clasificación del producto     |                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| Regional Availability          | Asia   Europe   Middle East   Africa                                                                           |
| Portfolio                      | SPARX®                                                                                                         |
| Product Type                   | Fiber Indoor/Outdoor cable                                                                                     |
| Product Series                 | MM Fiber                                                                                                       |
| Especificaciones generales     |                                                                                                                |
| Subunit Type                   | Gel-free                                                                                                       |
| Flame Rating                   | Flame-retardant   non-corrosive/low-smoke   zero-halogen (FRNC/LSZH) material                                  |
| Cable Type                     | Loose 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                    | 48F                                                                                                            |
| Number of ripcords             | 1 ripcord                                                                                                      |
| Fiber per tube                 | 12F                                                                                                            |
| Outer jacket colour            | Aqua.                                                                                                          |
| Central element                | Dielectric strength member                                                                                     |

|                                             |                                                                                                                                                                                                                                  |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outer Jacket Material                       | Flame-retardant   non-corrosive/low-smoke   silicon-free   zero-halogen (FRNC/LSZH) material                                                                                                                                     |
| <b>Mechanical Specifications</b>            |                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                           |
| <b>Optical Specifications</b>               |                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                         |
| <b>Environmental Specifications</b>         |                                                                                                                                                                                                                                  |
| 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 ).                                                                                                                                                                                             |
| <b>Regulatory Compliance/Certifications</b> |                                                                                                                                                                                                                                  |
| 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 |