

SPARX® Fiber optic cable Multi-mode OM3,  
Indoor/Outdoor, 48 core, Single Tube, LSZH,  
Dielectric Armoured

MODEL NUMBER : FCSPARX-M31S3DNS048F



Specifications :

| Produkt Klassifikation   |                                                                               |
|--------------------------|-------------------------------------------------------------------------------|
| Regional Availability    | Asia   Europe   Middle East   Africa                                          |
| Portfolio                | SPARX®                                                                        |
| Product Type             | Fiber Indoor/Outdoor cable                                                    |
| Product Series           | MM Fiber                                                                      |
| Allgemeine Spezifikation |                                                                               |
| Subunit Type             | Gel-free                                                                      |
| Flame Rating             | Flame-retardant   non-corrosive/low-smoke   zero-halogen (FRNC/LSZH) material |
| Cable Type               | Single Tube                                                                   |
| Construction Type1       | Dielectric Armour                                                             |
| Application              | Aerial   Direct Buried   Duct   General Purpose Horizontal                    |
| Cable Design             |                                                                               |
| Fiber Count              | 48F                                                                           |
| Number of ripcords       | 2 ripcords                                                                    |
| Fibre colouring          | Blue-orange-green-brown                                                       |
| Fiber per tube           | 12F                                                                           |
| Outer jacket colour      | Black.                                                                        |
| Outer Jacket Material    | Flame-Retardant   UV-Resistant                                                |

|                                                     |                                                                                                                                                                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members                                                                                                                                                                                                      |
| Tube Color                                          | Aqua..                                                                                                                                                                                                                           |
| REACH Regulation                                    | REACH Declaration                                                                                                                                                                                                                |
| <b>Mechanical Specifications</b>                    |                                                                                                                                                                                                                                  |
| Minimum Bend Radius, operation                      | 74 mm (2.91 in)                                                                                                                                                                                                                  |
| Nominal outer diameter                              | 7.4 mm (0.29 in )                                                                                                                                                                                                                |
| Max. tensile strength for installation              | 1350 N (303.49 lbf)                                                                                                                                                                                                              |
| Crush resistance                                    | 2000 N/10 cm                                                                                                                                                                                                                     |
| Minimum Bend Radius, installation                   | 111 mm (4.37 in)                                                                                                                                                                                                                 |
| <b>Optical Specifications</b>                       |                                                                                                                                                                                                                                  |
| Fibre category                                      | OM3                                                                                                                                                                                                                              |
| 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)             | 2000 MHz/km                                                                                                                                                                                                                      |
| Min. Overfilled Launch (OFL) Bandwidth              | 1500 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 |