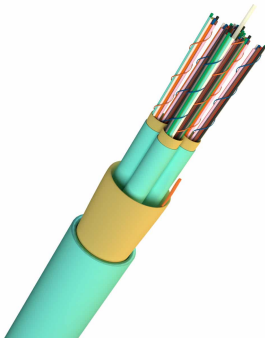


SPARX® Fiber optic cable Multi-mode OM3,
Indoor/Outdoor, 12 core, Loose Tube, LSZH,
Non-Armoured

MODEL NUMBER : FCSPARX-M31L3NNS012F



Specifications :

产品分类	
Regional Availability	Asia Europe Middle East Africa
Portfolio	SPARX®
Product Type	Fiber Indoor/Outdoor cable
Product Series	MM Fiber
一般规格	
Subunit Type	Gel-free
Flame Rating	Flame-retardant non-corrosive/low-smoke zero-halogen (FRNC/LSZH) material
Cable Type	Loose Tube
Construction Type1	Non-armored
Application	General building applications General Purpose Horizontal Vertical Riser Indoor horizontal Outdoor Duct
Cable Design	
Fiber Count	12F
Number of ripcords	1 ripcord
Fibre colouring	Blue-orange-green-Brown-grey-white-red-black-yellow-violet-pink-turquoise
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
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 Type	Multimode ^{or} OM3
Fibre category	OM3
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Wavelengths	850 nm / 1300 nm
Fiber Core Diameter	50 µm
Minimum Effective Modal Bandwidth (EMB)	2000 MHz/km
Min. Overfilled Launch (OFL) Bandwidth	1500 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