draka
A Prysmian Brand

M02: UC^{FUTURE} FO I LBP DI LSHF-FR
M02: UCFUTURE Patch Cord Style Data Centre Cable

GENERAL INFO

Fiber optic cable in ⌀3.0 mm compact design for parallel optical networks with 8 or 12 fibres for indoor use in tight installation spaces made of halogen-free and flame-retardant material with flame retardant performance. The intended application for this cable is MPO patch cords for data centres fitting to multi fibre connectors such as MPO® and MTP® connectors according to IEC 61754-7-1.

More information on fiber optic cable applications: read more

Latest version of this data sheet is available for download: ProductFamily238852

CERTIFICATIONS AND DESIGN STANDARDS

ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
EN 50173-5	Information technology - Generic cabling systems for data centres
IEC 60332-1-2	Single wire fire test
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-1-21	Mechanical Test Methods
IEC 60794-1-22	Environmental Test Procedures
IEC 60794-2-20	Indoor Cables Multi-fibre optical cables
IEC 61754-7-1	Fibre optic connector interfaces – Type MPO connector family
TIA/EIA 598-C	Fiber colour coding
EN 50575	Cables in construction works subject to reaction to fire

APPLICATION PROPERTIES

Resistant to UV	UV stabilised
Outdoor installation With rodent protection	Not applicable
Operation temperature (min) [°C]*	0 and (max) [°C] 50
Installation temperature (min) [°C]	0 and (max) [°C] 50
Storage temperature (min) [°C]	-10 and (max) [°C] 60
Bending radius (rule)	During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD

Temperature range recommended for cable installation, operation and storage tested according to the IEC 60794-1-22 F1.

CABLE CONSTRUCTION

Type of tube	MPO/MTP
Armouring/reinforcement	Aramid fibre
Material outer sheath	Halogenfree polymer,
Cable shape	Round
Cable marking example	DRAKA UCFUTURE FO I LBP M02 LSHF-FR Dca-s2-d2-a1 'Fibre count' 'Fibre type' 'Fibre brand' 'Item No' 'Factory No' 'Batch Number' 'Meter mark'

IDENTIFICATION

Fibre colour code

in accordance with TIA/EIA 598-C read more

1 Blue	13 Blue w/mark every 70mm
2 Orange	14 Orange w/mark every 70mm
3 Green	15 Green w/mark every 70mm
4 Brown	16 Brown w/mark every 70mm
5 Grey	17 Grey w/mark every 70mm
6 White	18 White w/mark every 70mm
7 Red	19 Red w/mark every 70mm
8 Black	20 White w/mark every 35mm
9 Yellow	21 Yellow w/mark every 70mm
10 Violet	22 Violet w/mark every 70mm
11 Pink	23 Pink w/mark every 70mm
12 Turquoise	24 Turquoise w/mark every 70mm

Sheath color

Cable with SM fibres: BendBrightXS G.657.A2, BendBright G.657.A1 Yellow, RAL 1018

Cable with mixed fibre types (hybrid) Blue, RAL 5015

Cable with OM1 Grey, RAL 7037

Cable with MaxCap-BendBright-OM2 Orange, RAL 2009

Cable with MaxCap-BendBright-OM3 Aqua, RAL 6027

Cable with MaxCap-BendBright-OM4 Erika-Violet, RAL 4003

Cable with BendBright WideCap-OM5 Lime-Green, RAL 6039

FIRE PROPERTIES

Flame retardant	Yes
Halogen free	acc. IEC/EN 60754-2
Low smoke	Yes
The reaction to fire according to the EN 50575	Dca - s2, d2, a1

MECHANICAL PROPERTIES

Nominal outer diameter		3 mm
Cable weight		8.2 kg/km
Fire load		139 MJ/km
Crush test	IEC 60794-1-21 E3	500 N/10cm
Torsion test	IEC 60794-1-21 E7	pass
Impact test	IEC 60794-1-21 E4	1 N·m
Max. tensile strength during installation	IEC 60794-1-21 E1	400 N
Permanent tensile strength	IEC 60794-1-21 E1	100 N
Kink test	IEC 60794-1-21 E10	The cables do not form a kink when a loop is drawn together to a diameter 20 times the cable nominal diameter.

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFUTURE FO I LBP DI LSHF-FR 12 SM7B YL	12	OS2	C24	Yellow	1006674	60019809
UCFUTURE FO I LBP DI LSHF-FR 12 OM3B AQ	12	OM3	C31	Turquoise	1007409	60031454
UCFUTURE FO I LBP DI LSHF-FR 12OM4B 4003	12	OM4	C32	Erika-violet	1011013	60032675
UCFUTURE FO I LBP DI LSHF-FR 12 OM5B	12	OM5	C39	Lime green	1005775	60050471

DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: DoP