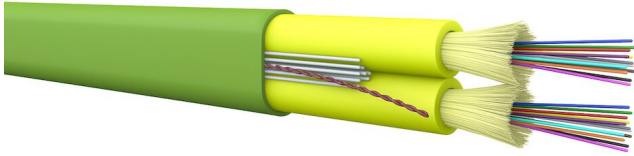


M20: UC^{FUTURE} FO I B35S LSHF-FR B_{2ca} 24

Flat ZipCord, 2x12fo 3.0mm units, aramid yarns and FireRes sheath.



B_{2ca}
CPR

GENERAL INFO

Trunk net cable for data centres and central offices. This cable features a zip-cord unit allowing easy split of the units to ease the routing and installation. Each unit fits 12-way multi fibre connectors according to IEC 61754-7-1 such as the MPO® and MTP® connectors without the need for a fan-out gland.

CABLE FEATURES

- Fiber optic cable as flat zip-cord duplex trunk cable for data centres and offices cabling.
- The cable is metal-free with a tensile strength of 1000N.
- The jacket is made of halogen-free, flame-retardant material according to IEC 60332-1;EN 50399 and Euro fire class B_{2ca} s1a-d1-a1.
- For use as a flame-retardant cable indoors.
- The fiber optic cable exceeds the requirements of EN50173-1, ISO/IEC11801 and EN/IEC60794-2.

Latest version of this data sheet is available for download: [ProductFamily412786](#)

CERTIFICATIONS AND DESIGN STANDARDS



EN 50399 Class B_{2ca}-s1a-d1-a1
EN 50173
EN 50575
ISO/IEC 11801
TIA/EIA 598-C
IEC 60794-1-1
IEC 60794-1-21
IEC 60794-1-22

Common test methods for cables under fire conditions
Information technology - Generic cabling systems
Cables in construction works subject to reaction to fire
Generic telecom cabling for customer premises
Fiber colour coding
Generic Specification Fibre Optic Cables
Mechanical Test Methods
Environmental Test Procedures

APPLICATION PROPERTIES

Resistant to UV	UV stabilised
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] 50
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 FI.

**The SM and MM fibres will operate in the temperature interval 0°C to 50°C with a maximum attenuation variation of 0.1dB/km and 0.5dB/km, respectively. In the interval of -20°C to +60°C, SM and MM fibres, will operate with a maximum attenuation variation of 0.2dB/km and 0.9dB/km, respectively.

CABLE CONSTRUCTION

Type of tube	MPO/MTP
Sub-unit diameter	3 mm with Low smoke zero halogen compound
Armouring/reinforcement material	Other
Rip cord	Yes
Material outer sheath	0.5mm Low smoke zero halogen, FireRes®
Cable shape	Flat
Cable marking example	PRYSMIAN UCFUTURE FO LBP M20 LSHF-FR B2ca-s1a-d1-a1 'fibre count' 'fibre type' 'fibre brand' 'product code' 'factory code' 'batch no.' 'meter' M

* Standard supply: 2000m on S10 drum type or 1000m on S10P drum type ([read more](#)).

IDENTIFICATION

Fibre colour code <i>in accordance with TIA/EIA 598-C read more</i>	1 Blue	7 Red
	2 Orange	8 Black
	3 Green	9 Yellow
	4 Brown	10 Violet
	5 Grey	11 Pink
	6 White	12 Turquoise
	Zip-cord colour code <i>One of the units is marked with "7" every 100mm</i>	Cable with SM fibres BendBrightXSG.657.A2, BendBright G.657.A1 Yellow, RAL 1018 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
Sheath color	Cable with SM fibres: BendBrightXSG.657.A2, BendBright G.657.A1 Yellow, RAL 1018 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	

MECHANICAL PROPERTIES

Outer diameter	4 x 7 mm	
Cable weight	30 kg/km	
Fire load	196 MJ/km	
Crush test	IEC 60794-1-21 E3	500 N/10cm
Torsion test *	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	1 N·m
Max. tensile strength during installation	IEC 60794-1-21 E1	1,000 N
Permanent tensile strength	300 N	
Kink test	IEC 60794-1-21 E10	The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter.

* Standard torsion test uses 39N weight for real installation approach.

FIRE PROPERTIES

Flame retardant according to IEC 60332-1-2	Yes
Reaction-to-fire class (acc. EN 13501-6)	B2ca
Smoke development class (acc. EN 13501-6)	s1a
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
Euro class acidity (acc. EN 13501-6)	a1

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
UCFUTURE FO LBP M20 LSHF-FR 24 SM7A2 YL	24	OS2	C24	-	M20-24SM7A2
UCFUTURE FO LBP M20 LSHF-FR 24 OM3B AQ	24	OM3	C31	-	M20-24OM3B
UCFUTURE FO LBP M20 LSHF-FR 24 OM4B EV	24	OM3	C32	-	M20-24OM4B
UCFUTURE FO LBP M20 LSHF-FR 24 OM5B LI	24	OM3	C39	-	M20-24OM5B

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