

M10: UC^{FUTURE} Data Centre Cca Cable for Raceways

Ø5.3 mm robust raceway MPO cable for data centres with 24 fibres, Class-Cca-s1a-d1-a1



Application

The intended application for this cable is internal connections inside data centres, where the cable is installed on "raceways" or other means where a robust cable is called for.

This cable features high flame retardance with Class-Cca approval.

Fits multi fibre connectors such as the MPO® and MTP® connectors according to IEC 61754-7-1

Standards

EN 50173-5, IEC 60794-2-20, ISO/IEC 24764

Flame resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034, EN 50399 Class-Cca-s1a-d1-a1, Class Dca; Class Eca

Options

As an option this cable is available with 16 fibres.

Construction

Fibre	24 primary coated fibres nominally 250 µm			
Fibre colour code According to TIA/EIA 598-C also in agreement with IEC 60304	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	Aqua	24	Aqua w/mark every 70mm
Strength member	Ultra high modulus Aramid yarns			
1 st Sheath	FireRes® halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised			
Reinforcement	Ultra high modulus Aramid yarns			

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2 nd Outer sheath	Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised, 0.5 mm	
Sheath colours	Cable with BendBright ^{XS} SM fibres G.657.A2	Yellow, RAL 1018
	Cable with MaxCap-BB-OM3	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4	Erika-violett RAL 4003
	Cable with BendBright WideCap-OM5	Lime-Green
Sheath printing	DRAKA UCFUTURE FO I LBP M10 LSHF-FR Cca-s1a-d1-a1 <fibre count> <fibre type> <fibre brand> >product code> <factory code> <batch no.> <meter> M	

Physical properties

Property	IEC 60794-1-21/22 method	Value
Fibre count	-	24
Nominal dimensions	-	Inner: $\varnothing 3.5$ mm +0 mm -0.2 mm Outer: $\varnothing 5.3$ mm +0.2 mm -0.2 mm
Nominal weight	-	22 kg/km
Tensile strength (dynamic)	E1	1000 N (fibre strain \leq 0.6%)
Tensile strength (permanent)	E1	300 N (fibre strain \leq 0.2%)
Compressive strength (crush) (N/100mm)	E3	500N
Impact	E4	5 Nm, R= 12.5 mm
Torsion	E07	Pass
Kink	E10	No Kink
Min. Bending radius [mm] – permanent	E11	53
Min. Bending radius [mm] - installation		106
Temperature range	F12	Operation and installation: 0°C to 50°C Storage: -20°C to 60°C

Product codes – ordering information

Product code	DoP Number*	Product description	Fibre count	Fibre type	Fibre data sheet
60066970	1007086	UC ^{FUTURE} FO I LBP M10 LSHF-FR C 24 OM3B AQ	24	MaxCap-BB-OM3	C31
		UC ^{FUTURE} FO I LBP M10 LSHF-FR C 24 OM4B 4003	24	MaxCap-BB-OM4	C32
		UC ^{FUTURE} FO I LBP M10 LSHF-FR C 24 OM5B LG	24	WideCap-OM5	C39
		UC ^{FUTURE} FO I LBP M10 LSHF-FR C 24 SM7B.P YL	24	BendBright ^{XS} G.657.A2, tight geometry	C25
		UC ^{FUTURE} FO I LBP M10 LSHF-FR C 24 SM7A1.P YL	24	BendBright G.657.A1, tight geometry	C38

*DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: www.prysmiangroup.com/cpr

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