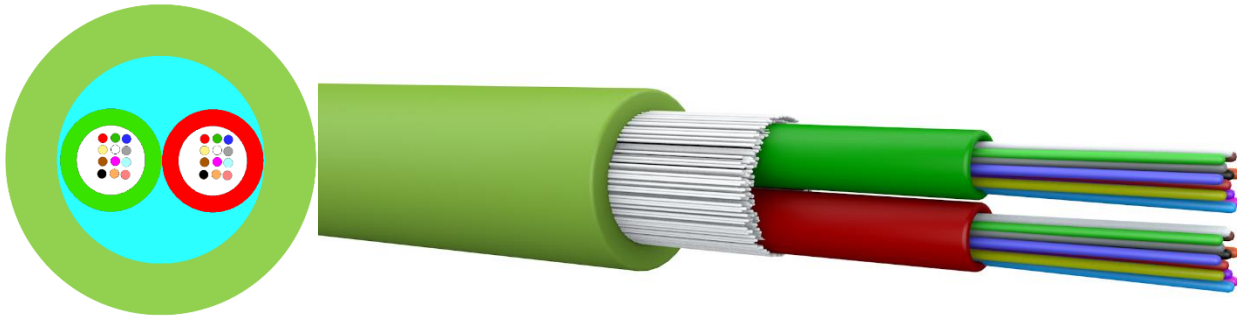


E23: UC^{FIBRE™} Universal Bi-Tube Dca Non-Metallic Gel-Filled Cable

3000N, Ind/Out metal-free Class D_{ca} gel-filled, water-blocked central tube cable, with 24 fibres, glass yarn dielectric armouring and FireRes[®] sheath. DIN/VDE: U-DQ(ZN)BH 2x12



Application and Installation

This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and access connections.

With its FireRes[®] LSHF sheathing this cable is ideal for mixed indoor and limited outdoor installation. This cable features a degree of rodent protection, effective in many cases. It is equally suited for installation in ducts and on trays.

This cable features a bi tube design, making it easy to split the 24 fibre in two bundles of 12 fibres.

Standards

ISO 11801-1, EN 50173-1:2002, IEC 60794-1

Flame Resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60754-1; IEC 60754-2; IEC 61034-2; EN 50399 Class D_{cas}2d2a1, Class E_{ca}

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Construction

Loose tube	2 x ø2.8 mm gel-filled loose tubes with 12 fibres each	
Tube colour code	Green tube fibre 1 – 12 Red tube fibre 13 - 24	
Fibre colour code	1 Red	7 Brown
	2 Green	8 Violet
	3 Blue	9 Turquoise
	4 Yellow	10 Black
	5 White	11 Orange
	6 Grey	12 Pink
Strength member	Water-blocked E-Glass fibre elements	
Ripcord	1	
Sheath	2.0 mm FireRes [®] sheath, halogen free, flame retardant, UV stabilised, IEC 50290-2-27	
Cable Sheath colours	Cable with SM fibres: BendBright ^{XS} G.657.A2, BendBright G.657.A1	Yellow, RAL 1018
	Cable with M6-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
Sheath marking	Draka UC ^{FIBRE} I/O CT2 LSHF-FR Dca-s2-d2-a1 3.0 kN <Fibre count> <Fibre type><Fibre brand><Item No><Factory No><Batch Number><Meter mark> U-DQ(ZN)BH 2 x 12 <Fibre family> <Mode field diameter> /125 <Transmission Class>	

Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits
Nominal outer diameter	-	24 fibres: 9.9 mm
Nominal weight	-	24 fibres: 110 kg/km
Maximum installation tensile strength	E1	3000 N (fibre strain ≤0.6%)
Permanent tensile strength	E1	1000 N (fibre strain ≤0.2%)
Compressive strength (crush)	E3	1500 N / 100 mm
Impact	E4	15 Nm (no attenuation change, no broken cable elements)
Torsion	E7	5 cycles ± 1 turn
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 100 mm
Min. bending radius, unloaded	-	R = 99 mm
Min. bending radius, loaded	E11	R = 198 mm
Temperature range	F1	Storage: -40°C to +60°C (short term up to 70 °C) Installation: -15°C to +40°C Operation: -30°C to +60°C.
Water penetration	F5B	No water on free end

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Product Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
		UC ^{FIBRE} I/O CT2 LSHF-FR 3kN 2x12 OM3B AQ	2x12	MaxCap-BB-OM3	C31
60064998	1006310	UC ^{FIBRE} I/O CT2 LSHF-FR 3kN 2x12 OM4B 4003	2x12	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O CT2 LSHF-FR 3kN 2x12 OM5B LG	2x12	WideCap-OM5	C39
		UC ^{FIBRE} I/O CT2 LSHF-FR 3kN 2x12 SM7A1 YL	2x12	OS2 BendBright G.657.A1	C17
		UC ^{FIBRE} I/O CT2 LSHF-FR 3kN 2x12 SM7B YL	2x12	OS2 BendBright ^{XS} G.657.A2	C24

*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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