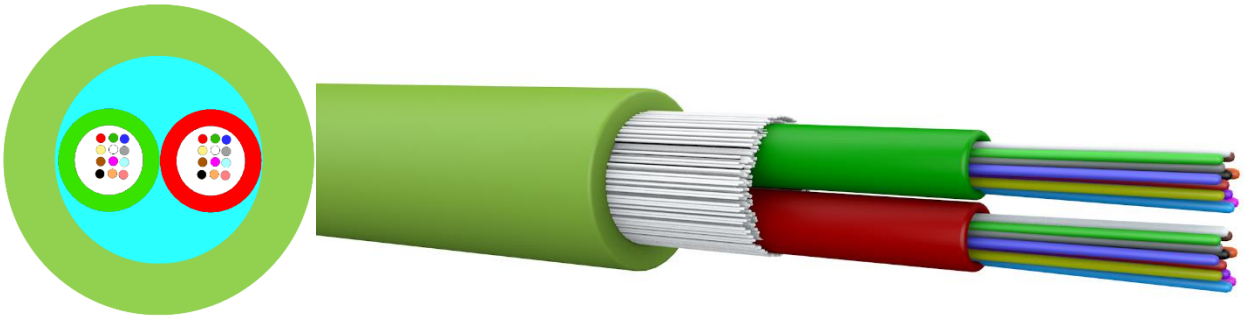
E23: UC$^{FIBRE™}$ Universal Bi-Tube Dca Non-Metallic Gel-Filled Cable

3000N, Ind/Out metal-free Class D_{ca} gel-filled, water-blocked central tube cable, with 24-48 fibres, glass yarn dielectric armouring and FireRes® sheath. DIN/VDE: U-DQ(ZN)BH



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 fibres in two bundles of 12 fibres or 48 fibres in two bundles of 24 fibres.

Standards

ISO 11801-1, EN 50173-1:2002, IEC 60794-1, EN 50575

Flame Resistance

LSHF-FR (FRNC): IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class D_{ca}s1d1a1, Class E_{ca}

Construction

Loose tube	2 x ø2.8 mm gel-filled loose tubes with 12 or 24 fibres each			
Tube colour code	1	Green tube		
	2	Red tube		
Fibre colour code	1	Red	13	Red w/mark every 70mm
	2	Green	14	Green w/mark every 70mm
	3	Blue	15	Blue w/mark every 70mm
	4	Yellow	16	Yellow w/mark every 70mm
	5	White	17	White w/mark every 70mm
	6	Grey	18	Grey w/mark every 70mm
	7	Brown	19	Brown w/mark every 70mm
	8	Violet	20	Violet w/mark every 70mm

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	9	Turquoise	21	Turquoise w/mark every 70mm
	10	Black	22	White w/mark every 35mm
	11	Orange	23	Orange w/mark every 70mm
	12	Pink	24	Pink w/mark every 70mm
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 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
Sheath marking	Draka UCFIBRE I/O CT2 LSHF-FR Dca-s1-d1-a1 3.0 kN <Fibre count> <Fibre type><Fibre brand><Item No><Factory No><Batch Number><Meter mark> U-DQ(ZN)BH 2 x <fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>			

Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits
Nominal outer diameter	-	9.9 mm
Nominal weight	-	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 permanent, unloaded	-	R = 99 mm
Min. bending radius installation, 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