

E25: UC^{FIBRE} Universal Central Tube B2ca Non-Metallic Gel-Filled Cable

3000N, Ind/Out metal-free, Class B2_{ca}-s1a-d1-a1, gel-filled, water-blocked central tube cable, up to 24 fibres, dielectric glass yarn armouring and FireRes[®] sheath.

DIN/VDE: U-DQ(ZN)BH


B2_{ca}
CPR

C_{ca}
CPR

D_{ca}
CPR

E_{ca}
CPR

Application and installation

This unitube 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.

Non-metallic unitube cable is with gel-filled tubes and water-blocked design.

With its FireRes[®] sheathing this cable is ideal for indoor installations.

It is CPR Class B2_{ca} cable with very high flame retardant performance.

It is glass yarn dielectric armoured for rodent resistance.

The cable is water-blocked and well suited for installation in ducts and on trays indoor and limited outdoor use in ducts.

Standards

ISO 11801-1, EN 50173-1:2002, IEC 60794-1, EN50575

Flame resistance

EN 50399: Class B2_{ca} s1a-d1-a1, Class C_{ca}, Class D_{ca}, Class E_{ca}
LSHF-FR (FRNC): IEC 60332-1-2, IEC 60332-3-24, IEC 60754-2; IEC 61034

Construction

Loose tube	Ø2.8 mm gel-filled loose tube for 2-24 Fibres			
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
	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

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Strength member & Water-blocking	Water-blocking Glass yarns	
Cable Sheath colours	Cable with SM fibres: BendBright ^{XS} G.657.A2, BendBright G.657.A1	Yellow, RAL 1018
	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	1.5 mm, FireRes [®] sheath, UV stabilised, EN 50290-2-27	
Sheath marking	Draka UC ^{FIBRE} I/O CT LSHF-FR B2ca-s1a-d1-a1 3.0 kN <Fibre count> <Fibre type> <Fibre brand> <Item No> <Factory Code> <Batch Number> <Meter mark> U-DQ(ZN)BH <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>	

Physical properties

IEC 60794-1-21/22

Nominal outer diameter	-	2 - 24 fibres: 7.5 mm
Nominal weight	-	2 - 24 fibres: 73 kg/km
Tensile strength (dynamic)	E1	3000 N (fibre strain ≤ 0.6%)
Tensile strength (permanent)	E1	1000 N (fibre strain ≤ 0.2%)
Compressive strength (crush)	E3	3000 N / 100 mm ($\Delta\alpha$ reversible) 1500 N / 100 mm (no attenuation change)
Torsion	E7	5 cycles ± 1 turn
Impact	E4	20 J (striking surface r=300 mm) 5 J (striking surface r=12.5 mm)
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 100 mm
Min. permanent bending radius (unloaded)	E11	75 mm (> -20°C temperatures)
Min. installation bending radius (loaded)	-	150 mm
Temperature range	F1	Installation: -20°C to +60°C Storage: -40°C to +70°C Operation: -40°C to +70°C (in the case of ≤ -20°C temperature during operation, no sharp bends are allowed & bending radius > 150 mm for permanent)
Water penetration	F5B	No water on free end

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Product codes – ordering information

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60083160	1010613	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 4 OM3B AQ	4	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 6 OM3B AQ	6	MaxCap-BB-OM3	C31
60090913	1011983	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 8 OM3B AQ	8	MaxCap-BB-OM3	C31
60087031	1011299	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 12 OM3B AQ	12	MaxCap-BB-OM3	C31
60083159	1010612	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 24 OM3B AQ	24	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 4 OM4B 4003	4	MaxCap-BB-OM4	C32
60090914	1011984	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 6 OM4B 4003	6	MaxCap-BB-OM4	C32
60083157	1010614	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 8 OM4B 4003	8	MaxCap-BB-OM4	C32
60083157	1010614	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 12 OM4B 4003	12	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 24 OM4B 4003	24	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 4 OM5B LG	4	WideCap-OM5	C39
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 6 OM5B LG	6	WideCap-OM5	C39
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 8 OM5B LG	8	WideCap-OM5	C39
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 12 OM5B LG	12	WideCap-OM5	C39
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 24 OM5B LG	24	WideCap-OM5	C39
60083197	1010670	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 4 SM2D/A1 YL	4	OS2 BendBright G.657.A1	C17
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 6 SM2D/A1 YL	6	OS2 BendBright G.657.A1	C17
60090925	1011991	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 8 SM2D/A1 YL	8	OS2 BendBright G.657.A1	C17
60083198	1010671	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 12 SM2D/A1 YL	12	OS2 BendBright G.657.A1	C17
60083199	1010672	UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 24 SM2D/A1 YL	24	OS2 BendBright G.657.A1	C17
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 4 SM7A2 YL	4	OS2 BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 6 SM7A2 YL	6	OS2 BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 8 SM7A2 YL	8	OS2 BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 12 SM7A2 YL	12	OS2 BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O CT LSHF-FR B2 3 kN 24 SM7A2 YL	24	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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