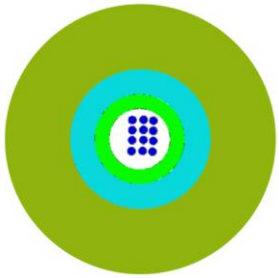
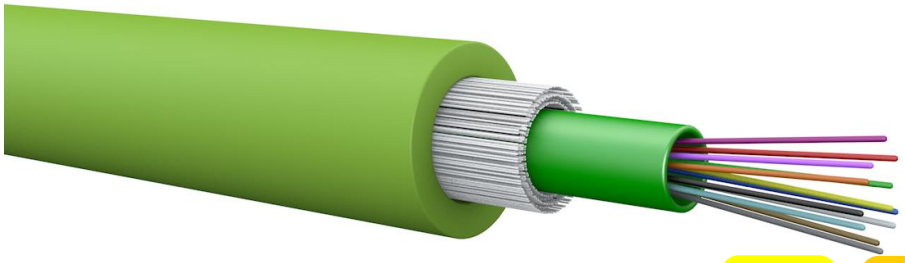
E20: UC$^{FIBRE™}$ Universal Central Tube Dca Non-Metallic Gel-Filled Cable

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





D_{ca} CPR

E_{ca} CPR

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-FR sheathing this cable is ideal for indoor and limited outdoor installations.
This cable features a high tensile strength and a degree of rodent protection, effective in many cases.
It is equally suited for installation in ducts and on trays.

Standards

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

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}s2d2a1, Class E_{ca}

E20: UC$^{FIBRE™}$ Universal Central Tube Dca Non-Metallic Gel-Filled Cable

Construction

Loose tube	ø2.8 mm gel-filled loose tube with 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
Strength member	Water-blocked E-Glass fibre elements			
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, halogen free, flame retardant, UV stabilised, IEC 50290-2-27			
Sheath marking	Draka UC^{FIBRE} I/O CT 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 <Fibre count> <Fibre family> <Core diameter> /125 <Transmission Class>			

Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits
Nominal outer diameter	-	2 - 24 fibres: 7.3 mm
Nominal weight	-	2 - 24 fibres: 55 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	3500 N / 100mm
Impact	E4	20 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 200 mm
Min. bending radius, unloaded (permanent)	E11	R = 73 mm
Min. bending radius, loaded (installation)	-	R = 146 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 +70°C.
Water penetration	F5B	No water on free end
Heath of combustion	-	2 – 24 fibres: 1100 MJ/km = 0,31 kWh/m