

E23: UCBFIBRE™ P. 1/2

UNIVERSAL BI-TUBE DCA
NON-METALLIC GEL-FILLED CABLE



3000N, IND/OUT METAL-FREE CLASS DCA 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 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.

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 DCAS1D1A1, CLASS ECA

CONSTRUCTION

TUBE COLOUR MODE	1	RED TUBE	2	GREEN TUBE
FIBRE COLOUR CODE	1	RED	13	RED WITH MARK EVERY 70 MM
	2	GREEN	14	GREEN WITH MARK EVERY 70 MM
	3	BLUE	15	BLUE WITH MARK EVERY 70 MM
	4	YELLOW	16	YELLOW WITH MARK EVERY 70 MM
	5	WHITE	17	WHITE WITH MARK EVERY 70MM
	6	GREY	18	GREY WITH MARK EVERY 70 MM
	7	BROWN	19	BROWN WITH MARK EVERY 70 MM
	8	VIOLET	20	VIOLET WITH MARK EVERY 70 MM
	9	TURQUOISE	21	TURQUOISE WITH MARK EVERY 70 MM
	10	BLACK	22	WHITE WITH MARK EVERY 35 MM
	11	ORANGE	23	ORANGE WITH MARK EVERY 70 MM
	12	PINK	24	PINK WITH MARK EVERY 70 MM

LOOSE TUBE

2 X Ø2.8 MM GEL-FILLED LOOSE TUBES WITH 12 FIBRES EACH

STRENGTH MEMBER

WATER-BLOCKED E-GLASS FIBRE ELEMENTS

CABLE SHEAT COLOUR

CABLE WITH SM FIBRES: BENDBRIGHTXS G.657.A2,
BENDBRIGHT G.657.A1 BLACK

SHEAT

2.0 MM FIRERES SHEATH, HALOGEN FREE, FLAME RETARDANT,
UV STABILISED, IEC 50290-2-27

RIPCORD: 1

PHYSICAL PROPERTIES

ATTRIBUTE	IEC 60794-1-21/22 METHOD	LIMITS
NOMINAL OUTER DIAMETER	-	24-48 FIBRES: 9.9 MM
NOMINAL WEIGHT	-	24-48 FIBRES: 110 KG/KM
MAXIMUM INSTALLATION TENSILE STRENGTH	E1	3 000 N (FIBRE STRAIN ≤0.6%)
PERMANENT TENSILE STRENGTH	E1	1 000 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 (PERMANENT)	-	R = 99 MM
MIN. BENDING RADIUS, LOADED (INSTALLATION)	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

ORDER INFORMATION

ITEM NO	DESCRIPTION	PACKAGING	NVG#
UCBFIBRE™ 48	CABLE G657A1	DRUM	2014074
UCBFIBRE™ 48	CABLE G657A1/GREEN	DRUM	2014074/GR