E06a: UC^{FIBRE} O CT CST PE 3.0KN

3000N, CT up to 24 fibres, glass yarns, steel tape armour, PE sheath

GENERAL INFO

Fibre optic cable with central loose tube filled with gel and up to 24 fibres for outdoor applications and direct burial installations. Metallic armoured design with glass yarns, longitudinally water blocked, rodent-proof and PE sheath. 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. DIN/VDE: A-D(ZN)(SR)B2Y

More information on fiber optic cable applications: read more
Latest version of this data sheet is available for download: ProductFamily238991

CERTIFICATIONS AND DESIGN STANDARDS

ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-1-21	Mechanical Test Methods
IEC 60794-1-22	Environmental Test Procedures

APPLICATION PROPERTIES

Resistant to UV	Good
Outdoor installation With rodent protection	Yes
Operation temperature (min) [°C]*	-40 and (max) [°C] 70
Installation temperature (min) [°C]	-15 and (max) [°C] 60
Storage temperature (min) [°C]	-40 and (max) [°C] 70
Bending radius (rule)	During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD

**Temperature range recommended for cable installation, operation and storage tested according to the IEC 60794-1-22 F1.*

CABLE CONSTRUCTION

Type of tube	Central tube cable with Ø2.8 mm gel-filled loose tube up to 24fo
Longitudinal water blocking cable	Yes*
Armouring/reinforcement	Corrugated Steel, galvanised tape + glass Yarns
Material outer sheath	1.5mm, MDPE,
Cable shape	Round
Cable marking example	UCFIBRE O CT CST PE 3.0 kN 'Fibre count' 'Fibre type''Fibre brand''Item No''factory code''Batch Number''Meter mark' A-D(ZN)(SR)2Y 'Fibre count' 'Fibre family''Mode field diameter' /125 'Transmission Class'

** Longitudinal water blocking test method according to IEC 60794-1-22 F5B and limited to the gel filled cable core.*

IDENTIFICATION

Fibre colour code *in accordance with IEC 60794-2 and VDE 0888 read more*	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
Colour outer sheath	Black, RAL 9005	

MECHANICAL PROPERTIES

Nominal outer diameter		8.5 mm
Cable weight		83 kg/km
Crush test	IEC 60794-1-21 E3	2,200 N/10cm
Torsion test *	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	30 N·m
Max. tensile strength during installation	IEC 60794-1-21 E1	3,000 N
Permanent tensile strength		1,000 N
Kink test	IEC 60794-1-21 E10	The cables do not form a kink when a loop is drawn together to a diameter 20 times the cable nominal diameter.
Water penetration	IEC 60794-1-22	No water on free end

CABLE DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	SAP code
UCFIBRE O CT CST PE 3kN 4 SM7A1 BK	4	OS2	C17	60018850
UCFIBRE O CT CST PE 3kN 8 SM7A1 BK	8	OS2	C17	60018747
UCFIBRE O CT CST PE 3kN 12 SM7A1 BK	12	OS2	C17	E06a-12SM7A1
UCFIBRE O CT CST PE 3kN 16 SM7A1 BK	16	OS2	C17	60011340
UCFIBRE O CT CST PE 3kN 24 SM2D/SM7A1 BK	24	OS2	C17	60071175
UCFIBRE O CT CST PE 3kN 4 OM2B BK	4	OM2	C34	60011387
UCFIBRE O CT CST PE 3kN 6 OM2B BK	6	OM2	C34	60018892
UCFIBRE O CT CST PE 3kN 8 OM2B BK	8	OM2	C34	60018893
UCFIBRE O CT CST PE 3kN 12 OM2B BK	12	OM2	C34	60018894
UCFIBRE O CT CST PE 3kN 24 OM2B BK	24	OM2	C34	60069233
UCFIBRE O CT CST PE 3kN 4 OM3B BK	4	OM3	C31	60018856
UCFIBRE O CT CST PE 3kN 6 OM3B BK	6	OM3	C31	60019590
UCFIBRE O CT CST PE 3kN 8 OM3B BK	8	OM3	C31	60019384
UCFIBRE O CT CST PE 3kN 12 OM3B BK	12	OM3	C31	60011435
UCFIBRE O CT CST PE 3kN 24 OM3B BK	24	OM3	C31	60069232
UCFIBRE O CT CST PE 3kN 4 OM4B BK	4	OM4	C32	60065311
UCFIBRE O CT CST PE 3kN 6 OM4B BK	6	OM4	C32	60055105
UCFIBRE O CT CST PE 3kN 8 OM4B BK	8	OM4	C32	60043719
UCFIBRE O CT CST PE 3kN 12 OM4B BK	12	OM4	C32	60019807
UCFIBRE O CT CST PE 3KN 24 OM4B BK	24	OM4	C32	60071180
UCFIBRE O CT CST PE 3kN 4 MM61 BK	4	OM1	C02	60018741
UCFIBRE O CT CST PE 3kN 6 MM61 BK	6	OM1	C02	60018743
UCFIBRE O CT CST PE 3kN 8 MM61 BK	8	OM1	C02	60018746
UCFIBRE O CT CST PE 3kN 12 MM61 BK	12	OM1	C02	60018749
UCFIBRE O CT CST PE 3kN 16 MM61 BK	16	OM1	C02	60011298
UCFIBRE O CT CST PE 3kN 24 MM61 BK	24	OM1	C02	60069234
UCFIBRE O CT CST PE 3kN 24 SM/MM BK	24	OS2+OM1	C02;C17	60071724