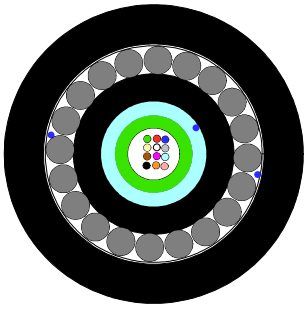
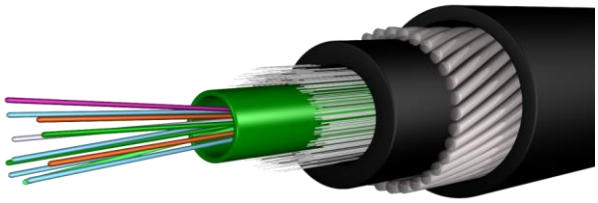
I102: UC^{FIBRE} Steel wire armoured central tube cable

Central tube cable w 2 – 24 fibres, glass elements, Afumex® sheath, steel wire armouring ø0.9 mm and outer Afumex® sheath. DIN/VDE: U-DQ(ZN) H W H





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 telecom access connections.

With its LSHF sheathing this cable is ideal for mixed indoor and outdoor installation.
It is equally suited for installation in ducts and on trays.

Standards

ISO 11801 2nd edition
EN 50173-1:2002
IEC 60794-1

Fire rating

IEC 60332-1-2, CPR Class E_{ca}	Single vertical wire test
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

Construction

Loose tube	Ø2.8 mm jelly filled green colored loose tube with 2 – 12 fibres; Ø3.5 mm loose tube with 24 fibres			
Fibre colour code	1	Red	13	Yellow w/mark every 100 mm
	2	Green	14	White w/mark every 100 mm
	3	Blue	15	Grey w/mark every 100 mm
	4	Yellow	16	Turquoise w/mark every 100 mm
	5	White	17	Orange w/mark every 100 mm
	6	Grey	18	Pink w/mark every 100 mm
	7	Brown	19	Yellow w/mark every 50 mm
	8	Violet	20	White w/mark every 50 mm
	9	Turquoise	21	Grey w/mark every 50 mm
	10	Black	22	Turquoise w/mark every 50 mm

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	11	Orange	23	Orange w/mark every 50 mm
	12	Pink	24	Pink w/mark every 50 mm
Strength member	Waterblocked E-Glass fibre elements			
Ripcord	1			
Inner sheath	0.8 mm black Afumex® , Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised			
Armouring	ø0.9 mm zinc coated steel wires according to IEC 60502			
Ripcords	2			
Over sheath	1.4 mm black Afumex® , Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised			

Physical properties

IEC 60794-1-21/22

Nominal outer diameter	-	2 - 12 fibres: 10.8 mm 16 - 24 fibres: 11.2 mm
Nominal weight	-	2 - 12 fibres: 215 kg/km 18 - 24 fibres: 230 kg/km
Maximum installation tensile strength	E1	4000 N (fibre strain less than 1/2 of proof test level)
Short term tensile strength	E1	2000 N (fibre strain less than 1/3 of proof test level)
Permanent tensile strength	E1	1000 N (no attenuation change, fibre strain less than 1/4 of proof test level)
Compressive strength (crush)	E3	2000 N
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 20xD (Cable diameter) mm
Min. bending radius, unloaded	E11	R =100 mm
Min. bending radius, loaded	-	R = 160 mm
Temperature range	F1	Storage: -40°C to +60°C Installation: -10°C to +50°C Operation: -40°C to +60°C.
Water penetration	F5B	No water on free end (core excl. armouring)

Sheath marking

Draka I/O CT D SWA 09 LSHF <Fibre count> <Fibre type><Fibre brand><Cable Sap Code> 22<production order number> U-D Q (ZN)H W H <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class> <Meter mark> M

Sample:

Draka I/O CT D SWA 09 LSHF 24 OM4B MaxCap-BB-OM4 <cable sap code> 22 < production order number> U-D Q (ZN)H W H 24 G 50/125 OM4 < Meter mark>M

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Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Fibre count	Fibre type	Fibre data sheet
	UC^{FIBRE} I/O CT D SWA 09 LSHF 4 OM2B	4	MaxCap-BB-OM2 50/125	C34
	UC^{FIBRE} I/O CT D SWA 09 LSHF 8 OM2B	8	MaxCap-BB-OM2 50/125	C34
	UC^{FIBRE} I/O CT D SWA 09 LSHF 12 OM2B	12	MaxCap-BB-OM2 50/125	C34
	UC^{FIBRE} I/O CT D SWA 09 LSHF 16 OM2B	16	MaxCap-BB-OM2 50/125	C34
	UC^{FIBRE} I/O CT D SWA 09 LSHF 24 OM2B	24	MaxCap-BB-OM2 50/125	C34
60039903	UC^{FIBRE} I/O CT D SWA 09 LSHF 4 OM3B	4	MaxCap-BB-OM3	C31
60039904	UC^{FIBRE} I/O CT D SWA 09 LSHF 8 OM3B	8	MaxCap-BB-OM3	C31
60040044	UC^{FIBRE} I/O CT D SWA 09 LSHF 12 OM3B	12	MaxCap-BB-OM3	C31
60040045	UC^{FIBRE} I/O CT D SWA 09 LSHF 16 OM3B	16	MaxCap-BB-OM3	C31
60039905	UC^{FIBRE} I/O CT D SWA 09 LSHF 24 OM3B	24	MaxCap-BB-OM3	C31
60040049	UC^{FIBRE} I/O CT D SWA 09 LSHF 4 OM4B	4	MaxCap-BB-OM4	C32
60040050	UC^{FIBRE} I/O CT D SWA 09 LSHF 8 OM4B	8	MaxCap-BB-OM4	C32
60040051	UC^{FIBRE} I/O CT D SWA 09 LSHF 12 OM4B	12	MaxCap-BB-OM4	C32
60040052	UC^{FIBRE} I/O CT D SWA 09 LSHF 16 OM4B	16	MaxCap-BB-OM4	C32
60040053	UC^{FIBRE} I/O CT D SWA 09 LSHF 24 OM4B	24	MaxCap-BB-OM4	C32
	UC^{FIBRE} I/O CT D SWA 09 LSHF 4 MM61	4	OM1 62.5/125 multi mode	C02
	UC^{FIBRE} I/O CT D SWA 09 LSHF 8 MM61	8	OM1 62.5/125 multi mode	C02
	UC^{FIBRE} I/O CT D SWA 09 LSHF 12 MM61	12	OM2 62.5/125 multi mode	C02
	UC^{FIBRE} I/O CT D SWA 09 LSHF 16 MM61	16	OM1 62.5/125 multi mode	C02
	UC^{FIBRE} I/O CT D SWA 09 LSHF 24 MM61	24	OM1 62.5/125 multi mode	C02
60040046	UC^{FIBRE} I/O CT D SWA 09 LSHF 4 SM2D	4	OS2 single mode	C03e
60039906	UC^{FIBRE} I/O CT D SWA 09 LSHF 8 SM2D	8	OS2 single mode	C03e
60040047	UC^{FIBRE} I/O CT D SWA 09 LSHF 12 SM2D	12	OS2 single mode	C03e
60040048	UC^{FIBRE} I/O CT D SWA 09 LSHF 16 SM2D	16	OS2 single mode	C03e
60039907	UC^{FIBRE} I/O CT D SWA 09 LSHF 24 SM2D	24	OS2 single mode	C03e
	UC^{FIBRE} I/O CT D SWA 09 LSHF 4 SM7B	4	BendBright®XS G.657.A2	C24
	UC^{FIBRE} I/O CT D SWA 09 LSHF 8 SM7B	8	BendBright®XS G.657.A2	C24
	UC^{FIBRE} I/O CT D SWA 09 LSHF 12 SM7B	12	BendBright®XS G.657.A2	C24
	UC^{FIBRE} I/O CT D SWA 09 LSHF 16 SM7B	16	BendBright®XS G.657.A2	C24
	UC^{FIBRE} I/O CT D SWA 09 LSHF 24 SM7B	24	BendBright®XS G.657.A2	C24