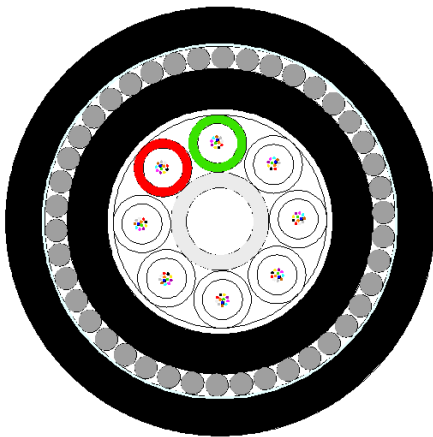


I103: UC^{FIBRE™} Steel wire armoured stranded loose tube cable

Universal stranded loose tube cable with up to 96
fibres, inner Afumex[™] sheath, steel wire armouring
ø0.9 mm and outer Afumex[™] sheath.

DIN/VDE: U-DQ H W H



U-DQHHW 8x12G SAMPLE DRAWING

Application and Installation

Universal indoor/outdoor cable for LAN, MAN and WAN backbones for mixed indoor and outdoor installation. The cable is suitable for direct burial, installation in ducts and on trays. The steel wire armouring makes the cable rodent proof.

Standards

ISO 11801, EN 50 173-1, IEC 60794-2, IEC 60794-3

Flame resistance

LSHF (FRNC): IEC 60332-1-2; IEC 60754-1, IEC 60754-2; IEC 61034

Options

As standard this cable is provided with 12 fibers per tube, as an option other lower fiber counts are possible

© PRYSMIAN GROUP 2012, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.

I103: UC^{FIBRE™} Steel wire armoured stranded loose tube cable

Construction

Central strength member	ø2.3/2.7 mm FRP rod with LSZH covering if needed
Loose tube	ø2.3 mm jelly filled loose tubes, with 12 fibres each.
Water blocking	The core is water blocked using swell able tape and tread
Inner Sheath	1.5 mm black Afumex™, halogen free, flame retardant thermoplastic sheathing compound according to EN 50290-2-27, UV stabilised
Ripcord	1
Armour	ø0.9 mm zinc coated steel wires according to IEC 60502
Ripcord	2
Sheath	1.4 mm black Afumex™, halogen free, flame retardant thermoplastic sheathing compound according to EN 50290-2-27, UV stabilised
Sheath marking	DRAKA UC ^{FIBRE} I/O ST SWA LSHF <Fibre count><Fibre type><Fibre brand> <Item No>22<Batch Number><Meter mark> U-DQHBH <Number of Elements> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class>

Physical properties

Attribute	IEC 60794-1-2 Method	Limits	
Fibre count	-	Up to 72	96
Nominal diameter [mm]	-	15.7	17
Nominal weight [kg/km]	-	410	475
Maximum installation tensile strength [N]	E1	6000 ($\Delta l/l$ fibre \leq 0.33%, $\Delta\alpha$ reversible)	
Crush (compressive strength) [N/100 mm]	E3	3000 ($\Delta\alpha$ reversible)	
Impact [J]	E4	20, 3 impacts, r=300mm ($\Delta\alpha$ reversible)	
Repeated bending	E6	R = 20x cable ø, 100 N, 5 cycles $\Delta\alpha$, \leq 0.05 dB* (after the test)	
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter 20 times the cable nominal diameter	
Minimum bending radius	E11	R = 15 x cable diameter without tension R = 20 x cable diameter with maximum tension	
Temperature range	F1	Installation	-10 °C to 50 °C
		Operation	-40 °C to 70 °C $\Delta\alpha$, \leq 0.05**
		Storage	-40 °C to 70 °C
Water penetration	F5B	No water on free end, (Up to inner sheath)	

Notes:

* Values for single-mode fibres, all optical measurements performed at 1550 nm.

* Values for multi-mode fibres, all optical measurements performed at 850 nm or 1300 nm

** 0.10 dB /km or 0.10 dB (tensile and crush test will not be performed for MM fibres)

Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet