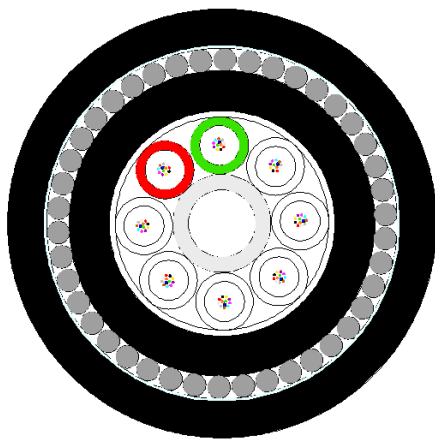


I103: UCFIBRE™ Steel wire armoured stranded loose tube cable

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

E_{ca}
CPR

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 armoring makes the cable rodent proof.

Standards

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

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

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Construction

Central strength member	∅2.3/2.7 mm FRP rod with LSZH covering if needed
Loose tube	∅2.3 mm jelly filled loose tubes, with 12 fibres each. Tube colours as per B04, fibre colour coding as per B07
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	∅0.9 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 UCFIBRE I/O ST SWA LSHF <Fibre count><Fibre type><Fibre brand> <Item No>22<Batch Number>U-DQHBH <Number of Elements> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class> <Meter mark> M

Physical properties

Attribute	IEC 60794-1-21/22 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, $r=300\text{mm}$ ($\Delta\alpha$ reversible)	
Repeated bending	E6	$R = 20 \times \text{cable } \varnothing$, 100 N, 5 cycles $\Delta\alpha$, $\leq 0.05 \text{ dB}^*$ (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	$R = 15 \times \text{cable diameter}$ without tension $R = 20 \times \text{cable diameter}$ 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 performed for MM fibres)

Product codes – ordering information

Product code	Product description	Fibre count	Fibre type	Fibre data sheet