



## UC<sup>FIBRE™</sup> I/O DIN PUR T

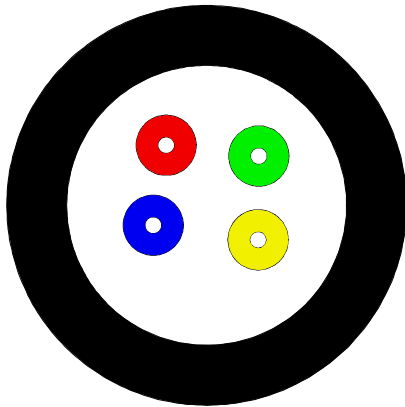
Cable for mobile use with 2 - 6 tightly buffered fibers, PUR sheath.

DIN/VDE I-V(ZN) 11Y

NO

FR

DK



### Application and Installation

Army and air force tactical networks  
Seismographic oil research  
Connection to moving objects of different kind

### Standards

EN 187 000  
ISO 11801 2<sup>nd</sup> edition  
EN 50 173-1

### Construction

Fibre	2 - 6 tightly buffered fibres 900 $\mu\text{m} \pm 50 \mu\text{m}$ .
Strength member	Ultra high modulus Aramid yarns
Sheath	Black PUR fire retardant, UV stabilized

### Fire rating

IEC 60332-1-2	Single vertical wire test
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

Note: The Draka policy of continuous improvement may cause in changed specifications without prior notice

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### Physical properties

IEC 60974-1-2

Nominal outer diameter	-	2 - 4 fibres: ≤ 6 mm 6 fibre version: ≤ 6.5 mm
Nominal weight	-	2 - 4 fibres: ≤ 30 kg/km 6 fibres: ≤ 35 kg/km
Maximum installation tensile strength	E1	2000 N (no attenuation variation; fibre elongation < 0.50%)
Operational tensile strength	E1	1500 N (no attenuation variation; fibre elongation < 0.33%)
Compressive strength (crush)	E3	1000N ø 25 mm mandrel (operating) (attenuation variation < 0.1 dB and reversible) 8000 N/100 mm (non operating) (attenuation variation < 0.5 dB and reversible)
Impact	E4	25 Nm
Torsion	E7	5 cycles ± 1 turn 1 cycle ± 5 turns
Flexing	E8	1000 cycles, ø40 mm pulleys, weight 15 N. 20000 cycles, ø80 mm pulleys, weight 15 N No loss in optical continuity, no fibre break, no perforation of sheath
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 70 mm
Min. Bending radius, unloaded	E11	R = 15 mm (operating) (attenuation variation < 0.1 dB and reversible) R = 10 mm (non operating) (attenuation variation < 0.5 dB and reversible)
Bending under tension (2000 N)	-	R = 20 mm
Temperature range	F1	Storage: -50°C to +55°C (short term up to +70°C) Installation and operation: -30°C to +55°C (Tests according to MIL-STD-810E method 510.3 and 502.3) (Attenuation variation < 0.5 dB/km and reversible)
Field test	-	In a field test the cable was run-over by three types of vehicles against three types of underlay: soft soil, hard soil, and concrete. For each combination of vehicle and underlay the cable was overrun 25 times. The maximum attenuation variation was 0.5 dB No attenuation variation was found when the vehicles parked on the cable.

Note: All test are carried out with 62.5 multi mode fibres

### Product codes – ordering information

Item No.	Fibre count	Product code	Fibre type	Fibre data sheet

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