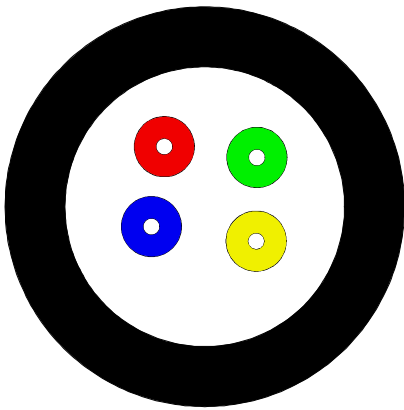


P02a: UC^{FIBRE™} Cable for mobile use

Cable for mobile use with 2 - 6 tightly buffered fibres, PUR sheath. VDE: I-V(ZN) 11Y



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 2nd edition, EN 50 173-1

Flame resistance

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

Construction

Fibre	2 - 6 tightly buffered fibres 900 µm ± 50 µm.
Strength member	Ultra high modulus Aramid yarns
Sheath	PUR fire retardant, UV stabilized, standard color "anthracite grey" RAL 7016
Print legend	Draka UC ^{FIBRE} I/O DI N PUR T <Fibre count> <Fibre type><Fibre brand> <Item No>05<Batch Number><Meter mark> I-V(ZN) 11Y <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>

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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

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Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet
60020543	UCFIBRE I DI N PUR T 2 OM2B	1028986	2	MaxCap-BB-OM2	C34
60011401	UCFIBRE I DI N PUR T 4 OM2B	1024526	4	MaxCap-BB-OM2	C34
	UCFIBRE I DI N PUR T 2 OM3B		2	MaxCap-BB-OM3	C31
60019877	UCFIBRE I DI N PUR T 4 OM3B	1025930	4	MaxCap-BB-OM3	C31
60027138	UCFIBRE I DI N PUR T 6 OM3B		6	MaxCap-BB-OM3	C31
	UCFIBRE I DI N PUR T 2 OM4B		2	MaxCap-BB-OM4	C32
60020409	UCFIBRE I DI N PUR T 4 OM4B	1027079	4	MaxCap-BB-OM4	C32
60020542	UCFIBRE I DI N PUR T 2 MM61	1028984	2	OM1 62.5/125 multi mode	C02
	UCFIBRE I DI N PUR T 4 MM61		4	OM1 62.5/125 multi mode	C02
60019641	UCFIBRE I DI N PUR T 4 SMD2.P	1024210	4	OS2 single mode	C18e
	UCFIBRE I DI N PUR T 2 SM7B	1028265	2	BendBright ^{XS} G,657.A2	C24
	UCFIBRE I DI N PUR T 4 SM7B	1028078	4	BendBright ^{XS} G,657.A2	C24
60027138	UCFIBRE I DI N PUR T 6 SM7B	1030190	6	BendBright ^{XS} G,657.A2	C24