



Draka Universal Cabling UC^{FIBRE} ..

Optical Fibre Data Transmission Cables acc. to DIN/VDE 0888

General Information

Application

The tight buffered Single Cable or **Duplex Cable** (J-V(ZN)H ..) is suitable for flexible connection (Patch Cable) as well as for fixed installation. The **Duplex-Flat** design (J-V(ZN)HH ..) is surrounded by an additional sheath, improving the cable's robustness e.g. against crush, warranting equal tensile strength. As **Distribution Cable** we offer the tight buffered FO cable with upto 24 fibres. The compact construction allows high tensile force at small dimensions and typical application as double patch cable for two optical connections with 4 fibres each (also called Mini-Breakout-Cable). The classic **Breakout-Cable** with single sheathed elements typically contains upto 16 single cables, which can easily be mounted to usual connectors (e.g. gluing with Hotmelt or two compound cement).

The **FO Indoor Cable** with central tube is suitable for all applications in buildings' rising areas and in floor cabling. The compact structure leads to large scale integration and easy handling. If more than 24 fibres are required, cables with stranded 12 fibre loose tubes are an economic solution. Fibre numbers up to 72 are usual, even higher numbers are available. Also this cable is suitable for all installation applications in buildings but it is predestined for rising chambers.

The **FO Indoor/Outdoor Cable** with central tube is suitable for all applications in buildings' rising areas and subscriber line. It enables the abandonment of a transit from an outdoor cable to an indoor cable, because the indoor distributor can be connected directly to any location. The universal indoor/outdoor cable is also available with fibre numbers beyond 24. In this case cables with stranded loose tubes are an economic solution. Fibre numbers up to 72 are common, even higher numbers are available.

As classical cable for duct and direct buried laying the **A-DQ(ZN)2Y** represents an economic solution for outdoor application. Version **A-DQ(ZN)B2Y** additionally offers metal free rodent protection.

All universal (U-...) and outdoor cable (A-...) have a certain amount of rodent protection, provided by the particular cable design three protection classes were achieved.

Class 1 offers an improved strain relief, which mitigates the consequences of a single rodent attack.

Class 2 forms a rodent protection in cases, the rodent affects the cable in a non-intended manner.

Class 3 is the best choice, when rodents intensively attack the cable, because it forms a barrier and has to be overcome by the rodent.

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Storage Fibre optic cables for indoor use have to be stored in a dry area and have to be protected from direct UV radiation. The cable ends have to be sealed. The cable on the drum must be covered in a suitable way in order to prevent formation of condensed water.

Installation The installation of fibre optic cables for indoor use has to be effected respecting the admissible maximum tensile stress, the installation temperature range and the minimum bending radius. The installation equipment may not allow bending beneath specified minimum bending radius - not even with maximum tensile stress. Binding or fixing of the cable with cable clamps or binders must be carried out without pinching the cable, i.e. without local transverse pressure. Lubricants and grease of low quality can damage the outer sheath of the cable.

General construction

Fibre

Fibre material Germanium doped silica

Primary coating Double layer UV hardened acrylate

Process PCVD

Core The secondary coating of the tight buffered fibre consists of Polyamide or LSHF-Polymer. The secondary coating of the tubes is out of PBTP.

Strength members In order to relieve the tension, aramide or glass rovings are used.

Sheath materials The FO indoor and outdoor cables are manufactured with halogen free, flame retardant copolymer according to DIN VDE 0207 Part 24 Type HM2. FO outdoor cables have a sheath out of polyethylene PE and if necessary a protective cover out of polyamide PA.

Sheath marking Cable manufacturer, **DRAKA** - type designation including dimensions and number of fibres, "LSHF" at halogen free, flame retardant sheathes with the safety class of the fire propagation.



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Cable Designations

UC ^{FIBRE} _	I/O_	CT_	D_	DA_	LSHF- FR_	1kN/T_	12_	MM52	
UC ^{FIBRE}									Universal Cable FIBRE
	I								I ndoor
	I/O								I ndoor/ O utdoor
	O								O utdoor
		S							S ingle Einzelkabel
		T							T win Duplexkabel mit Trennsteg
		FL							FL at (Doppelkabel mit zusätzlichem Mantel)
		DI							D istribution (Verteilerkabel mit kompaktem Aufbau = Mini-Break-Out)
		B							B reak-Out (Robustes Kabel mit ummantelten Einzelelementen)
		CT							C entral T ube Kabel mit zentraler Bündelader
		ST							S tranded T ube Hochfasrige Kabel mit verseilten Bündeladern
			D						D ry, unfilled (waterblocked with waterswellable materials)
			F						Jelly F illed
			N						N ot waterblocked
				DA					D ielectric A rmour
				MA					M etallic A rmour
					LSHF- FR				L ow S moke H alogen F ree- F lame R etardent sheath IEC 60332-3 C
					LSHF				L ow S moke H alogen F ree sheath IEC 60332-1
					PE				PE sheath
					PUR				PUR sheath
					PR				P lastics R ubber
					PF				P lastics F luoroplastics
					PA				PA sheath
						T			T ight
						L			L oose semitight reg. IEC
						x kN			0 - 9 kiloNewton, valid for all CT, ST cables
							n.n		For single fibre, two fibre cables and cables build of single fibre units, the unit dimension in mm without mm
								N	N umber of total Fibres, N = X x n; X = number of elements, n = number of fibres per element
								MM50	Multimode 50/125 OM2 HighCap
								MM51	Multimode 50/125 OM2 500-500
								MM52	Multimode 50/125 OM2
								MM53	Multimode 50/125 OM3
								MM54	Multimode 50/125 OM4
								MM61	Multimode 62,5/125 OM1
								MM62	Multimode 62,5/125 OM2
								SM2D	Singlemode 9/125, G652D
								SM7B	BendBright XS singlemode 9/125, G657B
								MM52/SM2D	Mixed fibre have combination designation