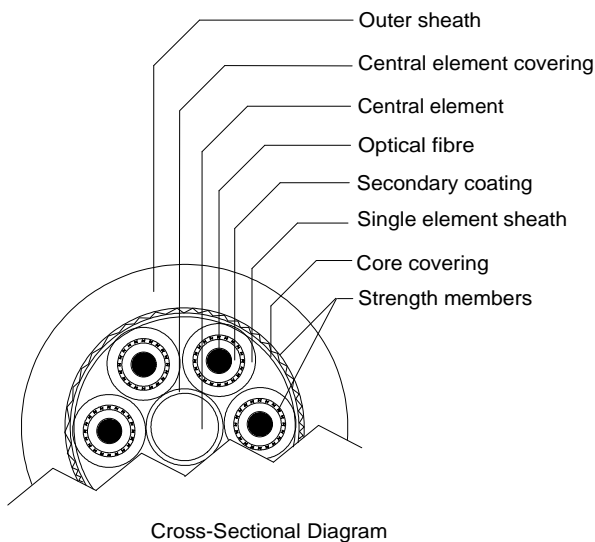

Universal Optical fibre cables

MULTIMEDIA CABLE

Product datasheet: Breakout Cable

BRE-SRGG



APPLICATION

Breakout cable is used in universal cabling systems. The multiple fibre cable type can be used in floor and wall duct in buildings and also in duct systems. The breakout cable has especially been designed for in situations where many connections have to be made. Further possible applications are as a work area cable or equipment cable in LAN systems for data transmission and as backbone and campus cable.

FEATURES

- Immunity to
 - Radio frequency interference (RFI)
 - Electromagnetic interference (EMI)
 - Electrostatic discharge (ESD)
- Not affected by
- Easy splicing
- Fast distribution of optical fibres
- Easy identification by different coloured single elements
- Easy splicing, due to double sheathed construction.
- Easy to strip fibres
- No fire propagation along the cable due to FRNC sheath.
- Halogen free and low smoke construction

CONSTRUCTION

Optical fibre	: For fibre specification see optical characteristics.
Secondary coating	: The fibres are semi-tight buffered. A thin separation layer is applied between the optical fibre and the buffering.
Strength members	: Longitudinal, non-metallic aramide strength members are incorporated.
Sheath single elements	: The single element sheath consists of a flame retardant, halogens free outer sheath (FRNC) according to IEC 332-1. Colour Yellow. Numbers on sheath identify the single elements.
Central element	: The central element consists of glass fibre reinforced plastic. Over the central element A swellable tape shall be applied..
Core covering	: A sellable tape covers the cable core.
Ripcord	: A ripcord shall be applied under the outer sheath
Outer sheath	: The outer cable sheath consists of a flame retardant, halogens free outer sheath (FRNC) according to IEC 332-1. Colour Grey. (RAL 7032)

Product data sheet: Breakout Cable

All values in this product data sheet are nominal unless otherwise stated.

Fibre distribution

Dimensions

Mechanical

Number of fibres	Buffer size outside [mm]	Diameter Single Element [-]	Number of elements 1st layer [-]	Number of elements 2nd layer [-]	Diameter over cable core [mm]	Diameter over outer sheath [mm]	Cable weight [kg/km]	Pulling force [N]
4	0.9	2.4	4 +1 filler	--	6.6	9.0	100	1250

Single element identification 4 OF

Number on single elements :	1 - 4
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Sheath marking (Inkjet, black)

DRAKA COMTEQ TELECOM [year of manufacture] OPTICAL CABLE [fibre count] x [fibre type] [length marking]

Buyer specific printing upon request

Mechanical characteristics

Temperature range	- Operation - Transport, storage - Installation	-30 up to + 60 -30 up to + 60 - 5 up to + 50	°C °C
Bending radius	- Repeated bending - Cable bend	min. 20 x D min. 10 x D	- -

D = outer diameter of cable

Optical characteristics (cabled max. values)

Fibre type	Single mode			
Acc. to specification	ITU-T G.652			
Mode field diameter	9.2 ± 0.5			µm
Cladding diameter	125 ± 1			µm
Coating diameter	245 ± 10			µm
Wavelength	1310	1285-1330	1550	nm
Attenuation coefficient	0.50	0.43	0.30	dB/km
Dispersion	-	3.5	18.0	ps/nm.km

Product data sheet: Breakout Cable

Testing and inspection

Testing will comprise the following:	
<ul style="list-style-type: none"> - Optical characteristics - Mechanical characteristics - Visual inspection of cable 	<ul style="list-style-type: none"> Attenuation (Single mode at 1310 / 1550nm) Thickness of sheaths Diameter of cable Colouring of fibres/tubes Colour of sheaths Identification
<p>The mechanical characteristics and visual inspection shall be carried out with a frequency of 1 out of 10 drums, starting with the first drum. The first drum shall always be checked when the quantity is less than 10 drums.</p> <p>Certified test results are provided upon request.</p> <p>If testing and inspection to be carried out by third parties is required, such parties will be nominated and paid by the Purchaser.</p>	

Packing

Standard length	2000	m
Length tolerance	To be agreed upon	
Sealing of cable ends	To prevent ingress of moisture the cable ends are sealed with heat shrinkable end caps.	