

Fire resistant breakout cables 2.0 mm



Design

Cable design	central strength member, non-metallic 4 - 12 single fiber cables with semi-tight tubes strain relief (Aramide yarn) separating tape and 1 ripcord
Channel marking	single fiber cable numbered
Jacket material	LSFH™ - double jacket with flame barrier
Outer jacket colour	E9 yellow OM2 orange OM3 turquoise OM4 heather violet G62.5 orange

Properties

- Metal free indoor cable
- Each fiber strain relief
- For direct connector assembly with strain relief
- Ripcord for easy jacket removal
- Low smoke, halogen free and self-extinguishing
- Cable with improved fire performance
- For SMARTLINE applications

Applications

- Installation in indoor areas
- Data cable in distribution networks
- For installation in cable ducts
- Ideal for applications involving high safety requirements in case of fire
- For horizontal and collapsed backbone cabling

According to IEC 60794-1-2

Ordering information

04-.../CWJSNHH-...20
08-.../CWJSNHH-...20
12-.../CWJSNHH-...20
Please see page 141

Approvals

Germanischer Lloyd,
GL-approval certificate no. 26 976-05 HH
Lloyd's Register
LR-approval certificate no. 06/20007

Fire resistant breakout cables 2.0 mm

Specification	4	8	12		stranding
Jacket Ø	10.0	12.0	15.0	mm	
Single cable Ø	2.0	2.0	2.0	mm	with one tube each
Tube Ø	0.9	0.9	0.9	mm	with one fiber each
Strength member	1.0	3.2	5.8	mm	
Channel marking on single fiber cable	numbered				
Approx. weight	96	141	219	kg/km	

Mechanical properties

Tensile strength	during installation	1200	2400	4000	N	IEC 60794-1-2 E1
	in service	4 x 100	8 x 100	12x100	N	
Min. bend radius	during installation	145	175	220	mm	IEC 60794-1-2 E11
	in service	95	115	145	mm	
Crush resistance	short-term	400	400	400	N/cm	IEC 60794-1-2 E3
	long-term	200	200	200	N/cm	
Impact resistance	Wp = 2.21 J, r = 25 mm	50	50	50	impacts	IEC 60794-1-2 E4
Repeated bending	r = 100 mm, weight = 5.4 kg	1000	1000	1000	cycles	IEC 60794-1-2 E6

Thermal properties

Temperature range	during installation	-10 to +60		°C	IEC 60794-2-50 F1
	in service	-25 to +70		°C	
	in storage	-40 to +60		°C	

Specification for singlemode at 1310 nm, for multimode at 1300 nm

Combustion properties

Fire load		2.00	2.74	4.56	MJ/m	
Fire propagation	on a vertical single cable	p	p	p		IEC 60332-1
	on a vertical cable bundle	p	p	p		IEC 60332-3-24
Fire test	with circuit integrity (CI)	180	180	180	min.	IEC 60331-25
Fire test	with circuit integrity (CI) with shock	180	180	180	min.	IEC 60331-31
Smoke density		p	p	p		IEC 61034-2
Halogen acid gas	jacket material	p	p	p		IEC 60754-1
Degree of acidity	jacket material	p	p	p		IEC 60754-2
2002/95/EC (RoHS)		compliant				

p = passed

Technical data for cable types with H200 fiber might vary