

Optipack breakout cables with 16 to 144 fibers



Properties

- Single tubes with 8 or 12 fibers
- Metal free indoor cable
- Strain relieved with aramide yarn
- Ripcord for easy jacket removal
- Low smoke, halogen free and self-extinguishing
- Cable with improved fire performance

Applications

- Installation in indoor areas
- Data center in distribution networks
- Ideal for applications involving high safety requirements in case of fire
- For horizontal and collapsed backbone cabling
- Fits multi fiber connectors (MPO/MTP®)

Design

Cable design	central strength member, non-metallic 16 to 144 optical fibers strain relief (aramide yarn) separating tape and 1 ripcord	
Jacket material	LSFH™	
Channel marketing	single fiber cable numbered	
Tube/jacket colour	E9 low bend	yellow
	G50 - OM3	turquoise
	G50 - OM4	heather violet
	G50 - OM5	lime green

According to IEC 60794-1-2

Ordering information

16-8.../(ZN)SNH...20	24-12.../(ZN)SNH...20
32-8.../(ZN)SNH...20	48-12.../(ZN)SNH...20
48-8.../(ZN)SNH...20	72-12.../(ZN)SNH...20
64-8.../(ZN)SNH...20	96-12.../(ZN)SNH...20
96-8.../(ZN)SNH...20	144-12.../(ZN)SNH...20

Please see page 151.

Optipack breakout cables with 16 to 144 fibers

Specification						
Single cable fiber count	8 fiber	16/32	48	64	96	
	12 fiber	24/48	72	96	144	
Jacket Ø	mm	6.6	7.6	9.2	10.3	
Single cable Ø	mm	2.0	2.0	2.0	2.0	numbered
Approx. Weight	kg/km	46	46	80	97	

Mechanical properties							
Tensile strength	during installation	N	600	800	1000	1400	IEC 60794-1-21 E1
	in service	N	4 x 100	6 x 100	8 x 100	12 x 100	
Min. bend radius	during installation	mm	90	110	130	150	IEC 60794-1-21 E11
	in service	mm	60	70	90	100	
Crush resistance	during installation	N/dm	5000	5000	5000	5000	IEC 60794-1-21 E3
	in service	N/dm	1000	1000	1000	1000	
Impact resistance	Wp=1.0J	impacts	50	50	50	50	IEC 60794-1-21 E4
Kink resistance	r=20mm		p	p			IEC 60794-1-21 E10
	r=30mm				p	p	

Thermal properties						
Temperature range	during installation	°C	-10 to +50			IEC 60794-1-22 F12
	in service	°C	-10 to +70			
	in storage	°C	-20 to +70			

Combustion properties							
Fire load		MJ/m	0.97	1.2	1.75	2.07	
Fire propagation	on a vertical single cable		p	p	p	p	IEC 60332-1-2 IEC 60332-3-25
	on a vertical cable bundle		p	p	p	p	
Smoke density			p	p	p	p	IEC 61034-2
Halogen acid gas	jacket material		p	p	p	p	IEC 60754-1
Degree of acidity	jacket material		p	p	p	p	IEC 60754-2
2011/65/EC (RoHS)			compliant				
(EU) No 305/2011 (CPR)			*/**	***	***	*/**	EN 50575

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* B2ca-s1a, d0, a1

** Cca-s1a, d0, a1

*** classes on request

Optipack breakout cables with 48 to 288 fibers



Properties

- Single tubes with 24 fibers
- Metal free indoor cable
- Strain relieved with aramide yarn
- Ripcord for easy jacket removal
- Low smoke, halogen free and self-extinguishing
- Cable with improved fire performance

Applications

- Installation in indoor areas
- Data cable in distribution networks
- Ideal for applications involving high safety requirements in case of fire
- For horizontal and collapsed backbone cabling
- Fits multi fiber connectors (MPO/MTP®)



Design

Cable design	central strength member, non-metallic 48 to 288 optical fibers strain relief (aramide yarn) separating tape and 1 ripcord	
Jacket material	LSFH™	
Channel marketing	single fiber cable numbered	
Tube/jacket colour	E9 low bend	yellow
	G50 - OM3	turquoise
	G50 - OM4	heather violet
	G50 - OM5	lime green

According to IEC 60794-1-2

Ordering information

96-24.../(ZN)SNH...30
144-24.../(ZN)SNH...30
288-24.../(ZN)SNH...30

Please see page 152.

Optipack breakout cables with 48 to 288 fibers

Specification					
Single cable fiber count		96	144	288	
Jacket Ø	mm	9.3	10.8	14.0	
Single cable Ø	mm	3.0	3.0	3.0	numbered
Approx. Weight	kg/km	78	110.5	167	

Mechanical properties						
Tensile strength	during installation	N	600	800	1400	IEC 60794-1-21 E1
	in service	N	4 x 100	6 x 100	12 x 100	
Min. bend radius	during installation	mm	130	160	200	IEC 60794-1-21 E11
	in service	mm	90	110	135	
Crush resistance	during installation	N/dm	5000	5000	5000	IEC 60794-1-21 E3
	in service	N/dm	1000	1000	1000	
Impact resistance	Wp=1.0J	impacts	50	50	50	IEC 60794-1-21 E4
Kink resistance	r=25mm		p	p	p	IEC 60794-1-21 E10

Thermal properties						
Temperature range	during installation	°C	-10 to +50			IEC 60794-1-22 F12
	in service	°C	-10 to +70			
	in storage	°C	-20 to +70			

Combustion properties						
Fire load		MJ/m	1.35	2.5	3.1	
Fire propagation	on a vertical single cable		p	p	p	IEC 60332-1-2
	on a vertical cable bundle		p	p	p	IEC 60332-3-25
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
2011/65/EC (RoHS)			compliant			
(EU) No 305/2011 (CPR)			*/**	***	*/**	EN 50575

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