DATA SHEET

Fiber Optic Cables
FRONTLINE Microtube
04-.../MH(ZN)H-...23

Properties

- Metal free indoor cable
- Strain relieved with aramide yarn
- Tube can be stripped up to 2m in one piece
- No need for cleaning the fibers
- Tight bending radii
- Low smoke, halogen free and self-extinguishing
- Dry cable construction



Jacket colour

Construction		
Fiber	Quantity: up to	4
Tube	Quantity	1 pcs
	Tube options	Jelly-free
	Diameter	1.25 mm
Strain relief	Type	aramide yarn
Outer jacket	Material	LSFH
	Diameter	2.3mm

Environmental data		
Temperature	Standard	IEC 60794-1-22 F1
	During installation	-5 °C ... 50 °C
	In service	-10 °C ... 60 °C
	In storage	-20 °C ... 70 °C
Flame propagation	Standard Condition	IEC 60332-1-2 On a vertical single cable
	Standard Condition	IEC 60332-3-25 On a vertical cable bundle
Fire characteristics	Standard Condition Characteristics	IEC 61034-2 Cable Smoke density
	Standard Condition Characteristics	IEC 60754-1 Jacket material Halogen acid gas
	Standard Condition Characteristics	IEC 60754-2 Jacket material Degree of acidity

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Mechanical data		
Weight		approx. 5.2 g/m
Tensile strength	Standard	IEC 60794-1-21 E1
	During installation	400 N
	In service	200 N
Min. bending radius	Standard	IEC 60794-1-21 E11
	During installation	10 mm
	In service	10 mm
Repeated bending	Standard	IEC 60794-1-21 E6
	Radius	30 mm
	Cycles	500
Crush resistance	Standard During installation In service	IEC 60794-1-21 E3 1000 N/dm 500 N/dm
Impact resistance	Standard Energy Cycles	IEC 60794-1-21 E4 1 J 3
Kink resistance	Standard Radius	IEC 60794-1-21 E10 5 mm

Colours	
Fiber	E9A2: according to colour code
Tube	Red
Standard outer jacket colours	White
	Light Grey
	Yellow

Type of fiber	
Fiber type	**Fiber standard**
E9/125A2	according to IEC 60793-2-50 B-657.A2 + ITU-T G.657.A2
E9/125A1	according to IEC 60793-2-50 B-657.A1 + ITU-T G.657.A1

Fiber colour code

	1	2	3	4	5	6	7	8	9	10	11	12
H+S Standard	Red	Green	Yellow	Blue	White	Violet	Orange	Black	Grey	Brown	Heather violet	Turquoise
DIN	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Orange	Heather violet
TIA	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Heather violet	Turquoise
IEC	Blue	Yellow	Red	White	Green	Violet	Orange	Grey	Turquoise	Black	Brown	Heather violet

Additional Information

stripping size
Outer jacket: AWG 18 (1.00mm) - Tube jacket: AWG 26 (0.40mm)
Recommended Multi-Wire Stripper:
RIPLEY Cutter 821; 26-16 AWG (0.40 – 1.3mm); Part No: 80568

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