

RHEYCORD®-OFE MZ

Flexible rubber cables with Optical Fiber Elements (OFE)

Approvals: UL File ZMHX.E305416

Description

Applications

Rubber sheathed flexible cable RHEYCORD-OFE MZ for data transmission without electromagnetic smog was developed for long distance communication network(LDN) e.g. optical PROFIBUS networks with special application requirements on mobile materials handling equipment, movable belts conveyer in open pit mines, transmission towers, festoon systems and e-chains.

Design

Optical Fibres

Fibre types: ...E9/125 µm, ...G50/125 µm and ...G62.5/125 µm

Fibre layed in a gel filled high performance thermoplastic loose tubes.

See related documents:

- E9 Fibre properties.pdf
- G50 Fibre properties.pdf
- G62.5 Fibre properties.pdf
- Optical Fibre colours.pdf
- OFE catalogue.pdf

Strain Relief

High-end synthetic rovings

Outer sheath

Heavy duty chlorinated rubber compound 5GM5 acc. to DIN VDE 0207 part 21

Marking

e.g.: RHEYCORD-OFE MZ 2x12G62.5/125 I NEXANS I year meter marking



Standards

International EN 188000



Flame retardant
IEC 60332-1-2



Oil resistance
EN 60811-2-1



U.V resistance
Yes



Ambient dynamic operating
temperature, range
-30 .. 60 °C



Ambient static op.
temp
-40 .. 80 °C



RoHS conform
Yes

RHEYCORD®-OFE MZ

Characteristics

Construction characteristics	
Sheath colour	Orange
Outer sheath	Chlorinated rubber compound type 5GM5
Metal free	Yes
Mechanical characteristics	
Abrasion resistance	High
Maximum tensile load	2000 N
Tear resistance	High
Usage characteristics	
Flame retardant	IEC 60332-1-2
Oil resistance	EN 60811-2-1
U.V resistance	Yes
Ozone resistance	Yes
Ambient dynamic operating temperature, range	-30 .. 60 °C
Ambient static operating temperature, range	-40 .. 80 °C
RoHS conform	Yes
Silicon free	Yes

Product List

☎=Make to order, 🏠=In stock

Nexans ref.	Nb optical fibres	Fiber optic type	Min. outer diam. (mm)	Max. outer diam. (mm)	Approx. weight (kg/km)
☎ 71290027	12	E 9/125	9.0	11.0	100
🏠 71290038	12	G 62,5/125	9.0	11.0	110
☎ 71290021	12	G 50/125	18.0	20.0	845
☎ 71290032	12	E 9/125	9.0	11.0	110
☎ 71290029	18	E 9/125	9.0	11.0	100
🏠 71290036	24	G 62,5/125	9.0	11.0	110
☎ 71290025	6	G 62,5/125	9.0	11.0	100
☎ 71290037	24	E 9/125	9.0	11.0	110
☎ 71290032	6	E 9/125	9.0	11.0	100
🏠 71290030	24	E 9/125	9.0	11.0	100
☎ 71290024	18	G 50/125	9.0	11.0	100
☎ 71290033	24	G 50/125	9.0	11.0	110

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RHEYCORD®-OFE MZ**Additional properties**

max. permissible torsional stress	$\leq 120^\circ / \text{m}$
Permissible bending radii: - fixed installation - festoon application	$\geq 50 \text{ mm}$ $\geq 110 \text{ mm}$
tests	alternating/reversed bending test, roller bending test, torsional resistance test, tensile load test
Travel speed (festoon system)	up to 240 m/min higher speed on request

Selling information**Options**

- Pre-assembled with pigtails
- Other numbers of fibres or fibre combinations on request
- Special cold flexible rubber outer sheath: up to -40°C for flexible festoon and reeling applications/e-chains