

LEONI PROFIBUS DP

SIENOPYR M-02Y(ST)CHX

for Fixed Installation in Offshore Applications



Cable Design

Wire

Conductor	7 bare copper wires, E-Cu58 F21 to DIN 40500 part 4 0.35 mm ²
Insulation	Polyethylene foam (cellular HDPE)

Core

Pair	2 cores twisted to a pair, Red and Green + Fillers
Tape	Nonwoven plastic textile band
Screen	Laminated aluminium foil
Shield	Tinned copper wire braid
Inner Jacket	Halogen-free polymer (HM4) , acc. DIN VDE 0207 part 24
Diameter	Ø 8,0 mm

Outer Jacket

Diameter	Halogen-free, cross-linked polymer, acc. IEC 60092-359 Ø 9,80 mm (min.) - 10,8 mm (max.)
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Characteristics

- Flame retardant acc. to IEC 60332-3
- Halogen free acc. to IEC 60754-2,
- Smoke density acc. to IEC 61034,
- Ozone resistant acc. to DIN VDE 0472 part 805 test B
- IEC 60092-359, DIN 19245-3; EN 50170-Vol.2
- Maritime and offshore approvals: Det Norske Veritas (DNV)

Specification

Part Number	Type
L45551-P21-B6	SIENOPYR-FR-PROFIBUS M-02Y(ST)CHX for fixed installation in offshore applications



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Electrical Data @ 20°C

Loop resistance		≤	110	Ohm/km
Insulation resistance		≥	16000	MOhm*km
Surface resistance of the outer sheath		≥	10 ⁹	Ohm
Characteristic Impedance	3- 20 MHz		(150±15)	Ohm
Characteristic Impedance	38.4 kHz		(185 ± 18.5)	Ohm
Characteristic Impedance	9.6 kHz		(250±25)	Ohm
Wave Attenuation	16 MHz	≤	45	dB/km
Wave Attenuation	4 MHz	≤	22	dB/km
Wave Attenuation	38.4 kHz	≤	5	dB/km
Wave Attenuation	9,6 kHz	≤	3	dB/km
Mutual Capacitance		≤	30	nF/km
Nominal Voltage		≤	100	V

Resistance to chemicals (tests to VG 95218 part 2)

Diesel fuel	to DIN VDE 51601
ASTM oil No. 2	to DIN 53521
Oils, NATO code 0-178, BW-TL 9150-0031 /2	to VG 95214 part 4
Hydraulic fluids, NATO code H-515, BW-TL 9150-0020	to VG 95214 part 4
Solvent cleansing agents, BW-TL 6850-0017	to VG 95214 part 4
De-ionized water	to VG 95214 part 4
De-ionized water with 3.5% NaCl	

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Mechanical & Thermal Characteristics

Permissible ambient temperatures during ¹⁾	laying	min.	-40	°C
Permissible ambient temperatures during ¹⁾	operation	min.	-10	°C
Permissible Temp. at the conductor under permanent load		max.	80	°C
Minimum bending radius	single		10	x Ø
Minimum bending radius	repeated		20	x Ø
Tensile stress ²⁾		max.	100	N
Weight approx.			109	kg/km

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