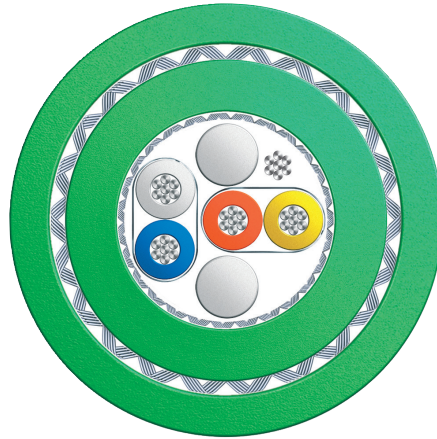


## Armoured PROFINET Cat.5e Type B 2x2x22/7 AWG LSZH-SHF1



### Application

DNV certified, Offshore installations, Maritime Environment, Internal patch panel wiring, Patch cord, Indoor & Outdoor Use, Fixed or Portable Installation.

### Cable Design

Conductor	Stranded tinned copper wire 7/0,25mm (22awg)
Insulation	SFS PO Ø 1,75 mm
Pairs	2 cores twisted to a pair
Pair Shield	Aluminum/Polyester Foil
Pair Identification	White x Blue, Yellow x Orange
Drain Wire	Stranded tinned copper wire (22awg)
Overall Shield	Annealed Tinned Copper Wire Braid (TCWB) 85% nom. coverage
Inner Jacket	FR-LSZH Ø 6,60 mm nom. Green
Armour	Galvanised Steel Wire Braid (GSWB)
Outer Jacket	FR-LSZH SHF1 Ø 10,0 mm nom. Green
Weight	170 kg/km

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### Standards

Applicable Standards	DNV certified, IEC 60092-360, IEC 61156, IEEE 802.3af (PoE), IEEE 802.3at (PoE+), ISO/IEC 11801-1, RoHS 3 2015/863/EU
Flammability Rating	IEC 60332-1, IEC 60332-3, IEC 60754-1/2, IEC 61034-1/2, UL 1581 VW-1

### Electrical Data @ 20°C

Coupling Attenuation	Type I
Dielectric Strength	1000 V/minute
Dielectric Strength to Shield	1000 V/minute
Frequency Range	1-100 MHz
Impedance	100 Ohm
Max. DC Resistance	55 Ohm/km @ 20°C
Max. Operating Temperature	+85°C
Min. Bend Radius	10 x Ø
Min. Insulation Resistance	5 MOhm • km
Transfer Impedance	Grade 1
Velocity of Propagation	78 % nom.
max resistance unbalance	3
Min. Operating Temperature	-40°C
Rodent Resistance	Yes
UV Resistance	Yes

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LSZH-SHF1

## Electrical Properties

Frequency [MHz]	Attenuation [dB/100m 20 °C]	NEXT Loss [dB]	SRL [dB]
1	2,0	65,3	26,0
4	4,0	56,3	26,0
10	6,0	50,3	26,0
20	9,0	45,8	26,0
30	11,0	43,1	24,2
60	15,0	38,6	21,2
100	21,0	35,3	19,0

\* Supplied cables meet the minimum Cat. 5 requirements as per ANSI/TIA/EIA 568-A

## Specification

Part Number	Type
AMN222-WBZF1	Armada <sup>®</sup> Armoured GSWB PROFINET Cat.5e Industrial Ethernet 2x2x22/7 AWG LSZH SHF-1 <DNV Certified>