

Profinet Armor

Application: Shipboard installations, Maritime Environment, Fixed or portable installations, fixed installations, High data rates, Ships, High speed & Light craft.

Operate at: -40°C to +75°C, Bend minimum: 10~20 times O.D.

Standards: IEC 61158-2, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2, IEC 60092-360, UL 1581

Design & Construction

Conductor: Bare or tinned copper

Conductor size: 22 AWG

Insulation: PE

Inner shield: Aluminum foil

Outer shield: Tinned copper wire braid

Inner jacket (optional): LSZH-SHF1, LSZH-SHF2 or LSZH-SHF2-MUD

Armor: GSWB or TCWB

Outer jacket (optional): LSZH-SHF1, LSZH-SHF2 or LSZH-SHF2-MUD

Marking (example): YANGER® Profinet 1*4*22 AWG GSWB LSZH-SHF1 IEC 60332-3-22 <batch no.> <meter marking>

Outer jacket color: Green (optional)

Environmental properties and fire performances

Halogen acid gas: IEC 60754-1/2

Degree of acidity of gases: IEC 60754-1/2

Smoke emission: IEC 61034-1/2

Flame retardant: IEC 60332-3-22

UV-resistant: UL 1581

Electrical characteristics

Impedance: $100 \pm 10 \Omega$

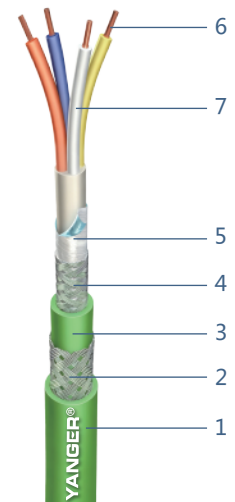
DC resistance: $\leq 59.4 \Omega/\text{km}$

Capacitance: 56.0 pF/m @1KHz

Transfer impedance: 10 M Ω /m @10MHz

Electrical properties

Frequency (MHz):	1	4	10	16	20	31.25	62.5	100
Attenuation dB/100m (Nom.):	1.8	3.6	6.0	7.6	8.7	11	16	21



1. Outer jacket
2. Armor
3. Inner jacket
4. Outer shield
5. Inner shield
5. Conductor
6. Insulation



Halogen free
IEC 60754



Low smoke
IEC 61034



Flame retardant
IEC 60332-3-22



UV resistant
UL 1581