

IEC 60502-1 Armoured (SWA) Fire retardant

IEC 60502-1 Armoured (SWA) 5G16

Contact
Market information
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Nexans Ref.: 10108686
EAN 13: 3427580168918

- 0.6/1 kV Power and control cables
- Armoured with galvanized steel wires (SWA) or aluminium wires (AWA)
- **Oil resistant**

DESCRIPTION

Applications

These power and control cables are used for electricity supply in **low voltage installation system**. They are well adapted to underground use in industrial applications where **chemical and mechanical protections are needed** (refinery areas, chemical plants...).

Design

Conductor:

- Solid plain copper : 1.5 to 4 mm²
- Stranded plain copper : 1.5 to 630 mm²

Insulation:

Cross-linked polyethylene (XLPE)

Bedding(optional):

Inner sheath acting as a filler with practically zero thickness or assembling polyester tape

Inner covering (inner sheath):

Polyvinyl chloride (PVC) Colour :black

Armour:

Galvanized steel wires (SWA) or aluminium wires (AWA) for 1 core cable

Outer sheath:

Polyvinyl chloride (PVC). Colour: black. Other colour on request.

Core identification



STANDARDS

International IEC 60228;
IEC 60332-3-22 Cat.A;
IEC 60502-1



Rated Voltage U_o/U (Um)
0.6/1 kV



Mechanical resistance to impacts
Good



Fire retardant
IEC 60332-3-22



Oil resistance
Yes



Max.conductor temp.in service
90 °C



Operating temp.
-20 - 60 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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1 core: black
2x to 5G cores: according to HD 308 S2
Above 5 cores: black core printed with white number.

Marking

NEXANS 279 XLPE/PVC/AWA or SWA/PVC 0.6/1 kV Nber of cores and cross section Cu IEC 60332-3-22(A) MM YYYY manufacturing number + meter marking

CHARACTERISTICS

Construction characteristics

Conductor material	Plain copper
Type of conductor	Stranded, Class 2
Insulation	XLPE (Cross-linked Polyethylene)
Inner sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Protection	Yes
With Green/Yellow core	Yes

Dimensional characteristics

Number of cores	5
Conductor cross-section	16 mm ²
Conductor diameter	4.85 mm
Diameter over insulation	6.25 mm
Diameter over inner sheath	19.2 mm
Diameter over armour	22.4 mm
Minimum outer diameter	25.22 mm
Maximum outer diameter	27.8 mm
Approximate weight	1819.87 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	0.6/1 kV
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Mechanical characteristics

Mechanical resistance to impacts	Good
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Usage characteristics

Fire retardant	IEC 60332-3-22
Oil resistance	Yes



Rated Voltage U₀/U (U_m)
0.6/1 kV



Mechanical resistance to impacts
Good



Fire retardant
IEC 60332-3-22



Oil resistance
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Usage characteristics

Max. conductor temperature in service	90 °C
Operating temperature, range	-20 - 60 °C

SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3 -24(C) and enhanced hydrocarbon resistance on request.

Minimum bending radius:

- 1 core: 10 x outer diameter
- Multicores: 8 x outer diameter
- To be doubled during laying operations

Cables with reduced neutral on request



Rated Voltage U₀/U (Um)
0.6/1 kV



Mechanical resistance to impacts
Good



Fire retardant
IEC 60332-3-22



Oil resistance
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Max. conductor temp. in service
90 °C



Operating temp.
-20 - 60 °C

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