IEC 60502-1 Armoured (SWA) Fire retardant

IEC 60502-1 Armoured (SWA) 5G1,5

Contact
Market information
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Nexans Ref.: 10108678
EAN 13: 3427580168833

- 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 Uo/U (Um)	Mechanical resistance to impacts	Fire retardant	Oil resistance	Max.conductor temp.in service	Operating temp.
0.6/1 kV	**Good**	**IEC 60332-3-22**	**Yes**	**90 °C**	**-20 - 60 °C**

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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	Solid, Class 1
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	1.5 mm²
Conductor diameter	1.39 mm
Diameter over insulation	2.79 mm
Diameter over inner sheath	9.8 mm
Diameter over armour	11.6 mm
Minimum outer diameter	14.7 mm
Maximum outer diameter	16.3 mm
Approximate weight	467 kg/km
Electrical characteristics	
Rated Voltage Uo/U (Um)	0.6/1 kV
Mechanical characteristics	
Mechanical resistance to impacts	Good
Usage characteristics	
Fire retardant	IEC 60332-3-22
Oil resistance	Yes


Rated Voltage Uo/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

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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 Uo/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