

■ (N)2XS(F)YR(A)Y 1x300/25 mm² 3,6/6 kV

Design No: TGK - 1219.474.1.03

General Properties

Cable Code	:	(N)2XS(F)YR(A)Y
Applied Standard/Standards	:	IEC 60502-2
Rated Voltage (U ₀ /U)	(kV) :	3,6/6
Maximum Operating Voltage (U _m)	(kV) :	7,2
Number of Cores and Nominal Cross Section	(mm ²) :	1x300/25

Construction

Conductor

Type	:	Electrolytic Pure Copper (Compacted) Class 2:
Class	:	Stranded - according to IEC 60228

Inner Semiconducting Screen

Type	:	Semiconductive XLPE
Thickness (Nom.) Thickness	(mm) :	0,5 ±0,1
(Minimum Point)	(mm) :	0,3

Insulation

Type	:	Cross-linked Polyethylene (XLPE)
Thickness (Nom.)	(mm) :	2,8
Thickness (Min.)	(mm) :	2,4

Outer Semiconducting Screen

Type	:	Semiconductive XLPE
Thickness (Nom.)	(mm) :	0,45
Thickness (Minimum Point) Over	(mm) :	0,3
Diameter of Screen (Nom.)	(mm) :	28,0

Metallic Screen

Type	:	Concentric Copper Wires + Copper Equalizing Tape
Geometrical Area	(mm ²) :	25

Core Lay-up

Assembly	:	Single Core
Filler	:	N/A
Colours for core identification ¹⁾	:	Black

Inner Sheath

Type	:	Polyvinyl chloride (PVC)
Colour	:	Black
Thickness (Nom.)	(mm) :	1,2

Armour

Type	:	Aluminium Wire
Wire Diameter (Nom.)	(mm) :	2,5

Outer Sheath

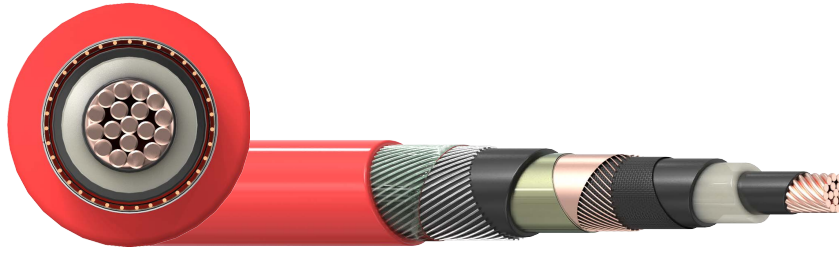
Type	:	Polyvinyl chloride (PVC)
Colour	:	Red
Thickness (Nom.)	(mm) :	2,2
Thickness (Min.) Overall	(mm) :	1,77
Diameter (Nom.)	(mm) :	42 ± 2

Watertightness

Conductor	:	No
Metallic Screen	:	Yes
Radially	:	No



- Die obigen Werte entsprechen den Angaben des Herstellers und können nicht garantiert werden.
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- Wir behalten uns das Recht vor, Änderungen ohne vorherige Ankündigung vorzunehmen.
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Electrical Properties

Power Freq. Test Voltage (5 min.) Impulse Test Voltage		(kV-rms) :	12,25
DC Resistance of Conductor at 20°C (Max.) Maximum Continuous Conductor Temperature DC Resistance at Maximum Operating Voltage Operating Capacitance at 20°C		(kV-Peak) :	60
		(Ω/km) :	0,0601
		(°C) :	90
		(Ω/km) :	0,0769
Operating Inductance (Flat formation) Operating Inductance (Trefoil formation) Partial Discharge (Max.) (at 1.73U ₀)		(µF/km) :	0,551
		(mH/km) :	0,519
		(mH/km) :	0,323
		(pC) :	10

Short-Circuit Current Ratings

Maximum Short-Circuit Conductor Temperature		(°C) :	250
Maximum Short-Circuit Current (Phase to Phase) ⁽²⁾	(for 1 second)	(kA) :	42,9
Maximum Short-Circuit Current (Phase to Ground) ⁽³⁾	(for 1 second)	(kA) :	3,3

Current Carrying Capacities

In Air ⁽⁴⁾	Flat formation	(A) :	846
	Trefoil formation	(A) :	731
Under Ground ⁽⁵⁾	Flat formation	(A) :	724
	Trefoil formation	(A) :	619

Flammability Ratings

Flame Retardant	:	According to IEC 60332-1
Fire Retardant	:	N/A

Drum *

Type	:	Wooden
Flange (Wheel) Diameter	(mm) :	*
Outside Width	(mm) :	*
Delivery Length	(m) :	1000

Other Properties

Minimum Bending Radius Lowest Installation Temperature	(mm) :	
	(°C) :	-5
Net Weight	(kg/km) :	4230 ± 3%
Gross Weight	(kg/drum) :	*

Cable Marking⁽¹⁾ : [METER] TRIO GLOBAL KABEL [CABLE TYPE] [NUMBER OF CORES] [CROSS SECTION] [OPERATING VOLTAGE] [APPLIED STANDART] [PRODUCTION DATE]

Notes: As per customer request.
 Initial Temperature: 90°C, Final Temperature: 250°C
 Initial Temperature: 70°C, Final Temperature: 200°C
 Load Factor: 1, Ambient Temperature: 30°C
 Load Factor: 0.7, Depth of laying: 70 cm, Soil Temperature: 20°C, Thermal resistivity of soil: 1 K.m/W

* For special drum dimensions, please contact TRIO GLOBAL KABEL



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