

■ (N)2XS(F)YR(A)Y 1x300/25 mm² 18/30 kV

Design No: H1219.474.1.02

General Properties

Cable Code	:	(N)2XS(F)YR(A)Y
Applied Standard/Standards	:	IEC 60502-2
Rated Voltage (U ₀ /U)	(kV) :	18/30
Maximum Operating Voltage (U _m)	(kV) :	36
Number of Cores and Nominal Cross Section	(mm ²) :	1x300/25

Construction

Conductor

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

Inner Semiconducting Screen

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

Insulation

Type	:	Cross-linked Polyethylene (XLPE)
Thickness (Nom.)	(mm) :	8,0
Thickness (Min.)	(mm) :	7,1

Outer Semiconducting Screen

Type	:	Semiconductive XLPE
Thickness (Nom.)	(mm) :	0,45
Thickness (Minimum Point)	(mm) :	0,3
Over Diameter of Screen (Nom.)	(mm) :	38,4

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) :	2,6
Thickness (Min.) Overall	(mm) :	2,11
Diameter (Nom.)	(mm) :	55 ± 3

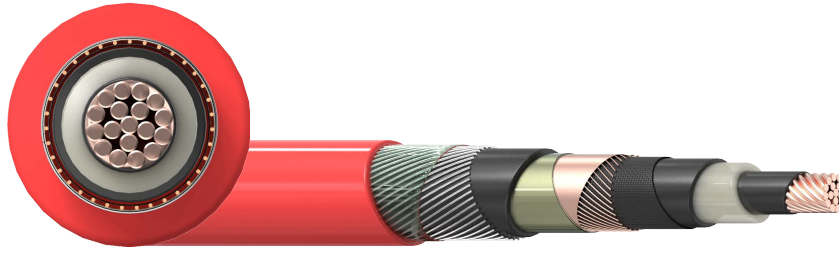
Watertightness

Conductor	:	No
Metallic Screen	:	Yes
Radially	:	No



- Die obigen Werte entsprechen den Angaben des Herstellers und können nicht garantiert werden.
- Wir behalten uns das Recht vor, Änderungen ohne vorherige Ankündigung vorzunehmen.
- Alle anderen Größen oder andere Ausführungen auf Anfrage

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Electrical Properties

Power Freq. Test Voltage (5 min.)	(kV-rms)	:	63
Impulse Test Voltage	(kV-Peak)	:	170
DC Resistance of Conductor at 20°C (Max.)	(Ω/km)	:	0,0601
Maximum Continuous Conductor Temperature	(°C)	:	90
DC Resistance at Maximum Operating Voltage	(Ω/km)	:	0,0769
Operating Capacitance at 20°C	(uF/km)	:	0,229
Operating Inductance (Flat formation)	(mH/km)	:	0,541
Operating Inductance (Trefoil formation)	(mH/km)	:	0,377
Partial Discharge (Max.) (at 1.73U ₀)	(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)	:	812
	Trefoil formation	(A)	:	717
Under Ground ^[5]	Flat formation	(A)	:	641
	Trefoil formation	(A)	:	608

Flammability Ratings

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

Drum*

Type	:	Wooden	
Flange (Wheel) Diameter	(mm)	:	1900
Outside Width	(mm)	:	1100
Delivery Length	(m)	:	500

Other Properties

Minimum Bending Radius	(mm)	:	1100
Lowest Installation Temperature	(°C)	:	-5
Net Weight	(kg/km)	:	5310 ± 3%
Gross Weight	(kg/drum)	:	3205 ± 3%

Cable Marking^[1] : [METER] HES [CABLE TYPE] [NUMBER OF CORES] [CROSS SECTION] [OPERATING VOLTAGE] [APPLIED STANDART] [PRODUCTION DATE]

- Notes:**
- [1] As per customer request.
 - [2] Initial Temperature: 90°C, Final Temperature: 250°C
 - [3] Initial Temperature: 70°C, Final Temperature: 200°C
 - [4] Load Factor: 1, Ambient Temperature: 30°C
 - [5] 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 HES Kablo



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