

N1XZ1

General information

Halogen-free, flame retardant and self-extinguishing in case of fire. Smoke generation at fire is small and has low density and is not harmful to electrical equipment.

Double- insulated cable for open permanent installation, indoors and outdoors, in pipes and in the ground/water. Can be plowed. UV resistant. Caution should be used when laying below 0°C.

Cenelec: N1XZ1-AR

Building Installations, Industrial Installations, OEM, Sustainable Energy and Installations, road Infra, power Distribution.



- 1) Stranded Sector Shaped Aluminium Conductor
- 2) XLPE Insulation
- 3) PP Bant
- 4) HFFR Sheath

AS: Multewire Sectoral Aluminum Conductor
AR: Multewire Round Aluminum Conductor

TECHNICAL DATA

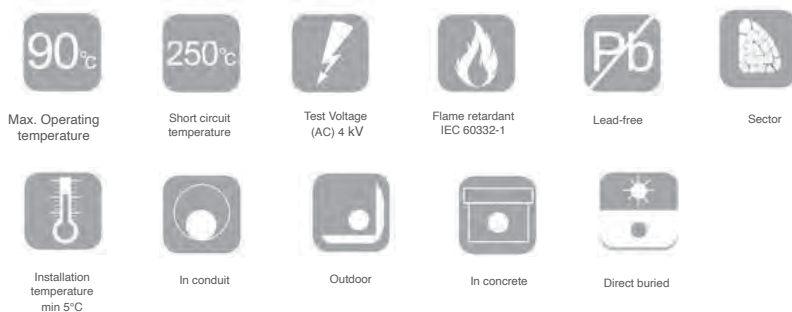
Permissible operating temperature 90 °C
Short circuit temperature 250 °C
Test Voltage (AC) 4 kV
Installation temperature minimum -10 °C *
Minimum Bending Radius 12xD



STANDARD



* note: -10 °C is valid when the cable is not struck and the bending radius is not exceeded.



N1XZ1

Rated Cross-section	Overall Diameter of Cable (Approx)	Current Carrying Capacity in		Conductor DC Resistance at 20°C	Net Weight (Approx)	Amount of Packing
		Air	Ground			
mm²	mm	A	A	ohm / km	kg / km	m
1x25 AR	10.50	110	150	1.2000	143.45	
1x35 AR	11.50	185	95	0.8680	176.18	
1x50 AR	12.70	225	115	0.6410	219.26	
1x95 AR	16.60	335	250	0.3200	394.99	
1x150 AR	20.10	430	335	0.2060	588.01	
1x240 AR	25.00	570	460	0.1250	915.28	
1x300 AR	27.00	645	550	0.1000	1119.54	
4x10 AR	17.20	-	-	3.0800	309.69	
4x16 AR	19.40	-	-	1.9100	407.15	
4x25 AR	23.20	81	102	1.2000	569.30	
4x35 AR	25.70	123	99	0.8680	706.36	
4x50 AS	24.70	144	119	0.6410	865.21	
4x95 AS	32.60	215	186	0.3200	1513.92	-
4x150 AS	40.70	275	246	0.2060	2338.55	-
4x240 AS	51.40	364	338	0.1250	3661.41	-
5G10 AR	18.60	-	-	3.0800	412.74	
5G16 AR	21.10	-	-	1.9100	553.32	
5G25 AR	25.40	81	102	1.2000	797.54	
5G35 AR	28.10	123	99	0.8680	992.00	
5G50 AR	31.30	144	119	0.6410	1246.34	
5G95 AR	41.70	215	186	0.3200	2292.52	
5G150 AR	51.20	275	246	0.2060	346.70	



N1XZ1

DESCRIPTION	UNITS	DATA
Conductor Material		Aluminum
Conductor Class		Class 2
Conductor Stranding		Stranded
Conductor Shape		Circular / Sector Stranded
Insulation Thickness	mm	0.90
Insulation Material		XLPE
Tape Material		PP tape
Sheath Material		HFFR
Conductor DC Resistance Per km at 20 °C (Max)	Ohm/km	1200
Max. Permissible Continuous Conductor Temp	°C	90
Min. outer temperature, fixed installation	°C	-40
Max. outer temperature, fixed installation	°C	70
STANDARD		HD 603 5M & HD 604 5D utvalgte dele
Bending Radius Moved -		
Bending Radius Fixed		8XD
Short Circuit Temp	°C	250
Core Indification		HD 308 S2
Flame Retardant		IEC/EN EN 60332-3-24 Cat. C
Halogen free		IEC/EN EN 60754-1-2
Test Voltage	kV	3.5
Smoke Density		IEC/EN EN 61034-2
CPR		Dca-s1,d2,a3

CPR: Dca-s1,d2,a3

4.1 Reference of classification

This classification has been carried out in accordance with the clauses 9.4, 9.2, 9.10 and 9.11 of EN 13501-6:2018

4.2 Classification

N1XZ1 Hans Følsgaard in relation to its reaction to fire behaviour is classified:

Dca

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets /particles is:

d2

The additional classification in relation to acidity is:

a3

The format of the reaction to fire classification for N1XZ1 Hans Følsgaard is:

Fire behaviour		Smoke production			Flaming droplets			Acidity	
D _{ca}	-	s	1	,	d	2	,	a	3
Reaction to fire classification: D _{ca} -s1,d2,a3									