

RALOS 3.3kV Rubber Cables



Applications

NSGAFOU flexible cables standard to VDE0250 part 602, suitable for AC/DC applications.
TC(Class 5)/EPR/CPE

Relevant Standard

DIN VDE0250 part 602, IEC60332-1

Feature

Oil and Chemicals resistant, Flame retardant and UV stabilized.
Surface Marking: according to customer require.

Mechanical & Electrical Properties

Temperature Range:	-35 to +110°C at static, -25 to +90°C at flexing
Rated Voltage:	1.9/3.3KV.
Min Bending Radius:	4 X Cables Diameter during static, 5 X Cables Diameter during flexing.

Construction

Conductor:	Annealed tinned copper conductor standard to VDE0295 class 5.
Binder Tape:	Non-hygroscopic PET tape wrapped.
Insulation:	EPR rubber compound Type 3GI3, color is White
Sheath:	CPE rubber compound type 5GM3, color is Black

Part Number	Description	Diameter of Conductor	Thickness of Insulation	Thickness of Sheath	Overall Diameter	Approx. Weight	Current Carrying Capacity (ThreePhase)	Max. 20°C D.C Conductor Resistance
3.3KV1X2.5	2.5mm ² NSGAFOU 3.3kV 110°C	2.1	1.3	0.8	6.5 - 7.5	67	42	8.21
3.3KV1X4	4mm ² NSGAFOU 3.3kV 110°C	2.7	1.3	0.8	7.0 - 8.5	87	55	5.09
3.3KV1X6	6mm ² NSGAFOU 3.3kV 110°C	3.3	1.3	0.8	8.0 - 9.5	112	70	3.39
3.3KV1X10	10mm ² NSGAFOU 3.3kV 110°C	4.3	1.5	0.8	9.5 - 11.0	169	99	1.95
3.3KV1X16	16mm ² NSGAFOU 3.3kV 110°C	5.3	1.5	0.8	11.5 - 13.0	233	130	1.24
3.3KV1X25	25mm ² NSGAFOU 3.3kV 110°C	6.7	1.8	1.0	13.5 - 15.0	360	173	0.795
3.3KV1X35	35mm ² NSGAFOU 3.3kV 110°C	8.0	1.8	1.0	15.0 - 16.5	469	214	0.565
3.3KV1X50	50mm ² NSGAFOU 3.3kV 110°C	9.9	1.8	1.0	16.5 - 18.0	630	270	0.393
3.3KV1X70	70mm ² NSGAFOU 3.3kV 110°C	11.4	1.8	1.0	18.5 - 20.5	817	340	0.277
3.3KV1X95	95mm ² NSGAFOU 3.3kV 110°C	13.3	2.2	1.0	21.0 - 23.0	1081	410	0.21
3.3KV1X120	120mm ² NSGAFOU 3.3kV 110°C	15.3	2.2	1.0	23.0 - 25.0	1345	487	0.164
3.3KV1X150	150mm ² NSGAFOU 3.3kV 110°C	17.0	2.2	1.2	26.0 - 28.0	1645	562	0.132
3.3KV1X185	185mm ² NSGAFOU 3.3kV 110°C	18.5	2.4	1.2	28.0 - 30.0	1988	644	0.108
3.3KV1X240	240mm ² NSGAFOU 3.3kV 110°C	20.1	2.6	1.2	32.0 - 34.5	2587	775	0.0817
3.3KV1X300	300mm ² NSGAFOU 3.3kV 110°C	23.5	2.8	1.2	35.0 - 38.0	3271	895	0.0654
3.3KV1X400	400mm ² NSGAFOU 3.3kV 110°C	27.8	3.0	1.4	40.0 - 43.0	4280	1079	0.0495

Note:

1. The data shown is approximate and subject to standard industry tolerances.
2. Current carrying in free air (at 40°C) for single core flexible cables spaced.
3. The insulation and sheath should be bonded together.

Certificate of Compliance

Certificate No.: HY20221012-01	Issued On: October 12, 2022
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This certificate relates to the following:

Product Type	NSGAFÖU Cables
Voltage	1.9/3.3 kV
Temperature	-35 °C up to +110°C
Description	Conductor: Class 5 tinned copper wire Insulation: 3GI3 EPR Sheath: 5GM3 CPE Sectional Area: 2.5~ 400 SQMM

We hereby confirm that the above cables conform to every respect to the relevant VDE0250 part 602 and customer requirement.

