



SDI Single Core Double Insulated Rubber Flexible Power Cables NSGAFÖU

CONSTRUCTION

Conductors	Tinned annealed copper conductors AS/NZS1125
Insulation	Special EPR compound, 3GI3 quality to VDE 0207 part 20
Outer Jacket	PCP (Polychloroprene) 5GM3 to VDE 0207 part 21
Voltage	1.9/3.3kV test voltage 6kV
Colour	Black
Minimum Bending Radius	4 x Diameter for fixed installations, 5 x Diameter for mobile installations

FEATURES

Excellent Flexibility
Flame Retardant and Submersible to 100m
Temperature range -25°C + 110°C . For fixed instalation Lowest temperature is -40°C
Maximum permissible short circuit temperature 250°C
UV, Sunlight, Ozone, Oil, Resistant
This cable is designed in accordance with DIN VDE 250 Part 602 as far as applicable

APPLICATIONS

Heavy-Duty flexible single core for mobile and fixed Installations
Internal switchboard Wiring
Sub-mains
Electrical Traction vehicles
Battery bank connections
Machine & Equipment Cabling
Stacker and reclaiming cabling
Submersible to 100 metres
Steelworks, cranes & hoists
Other industrial applications

PACKAGING

Standard Length Cable Packing	100m 500m as well as cut to length 10mm ² and above
Standard Cable Markings	Manufacturer Name, NSGAFÖU R.EP.110 3.3kV <Meter marked> <mm ² >

Current-carrying capacity correction coefficients to meet changes in environments condition
(rating factors according to the Standard AS/NZS 3008.1.1 2010 Table 27 as far as applicable)

C°	25	30	35	40	45	50	55	60	65	70	75
Rating Factor	1, 08	1, 06	1, 03	1	0, 97	0, 93	0, 9	0, 87	0, 83	0, 79	0, 75

Please Note

Please consult with your Electrician / Engineer to ensure this cable is suitable for the intended application and installation.

Elcon Cables takes every precaution to ensure the information in this publication is correct but accepts no liability of any kind and reserves the right to change any detail in this catalogue without notification.

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Product Code	Nominal Area mm ²	No Strands x Conductor size	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Amps **	Max DC Resistance @20°C Ω/KM	Min OD mm	Max OD mm	Short circuit Rating kA (1s)	Mass Kg/Km
SDI1.5-3.3kV	1 x 1.5	28 / 0.26	1.3	0.8	31	13.70	5.5	7	0.2 kA	50
SDI2.5-3.3kV	1 x 2.5	45 / 0.26	1.3	0.8	42	8.21	5.9	7.5	0.33 kA	65
SDI4-3.3kV	1 x 4	51 / 0.31	1.3	0.8	55	5.09	6.4	8	0.53 kA	80
SDI6-3.3kV	1 x 6	75 / 0.31	1.3	0.8	70	3.39	7	8.6	0.79 kA	105
SDI10-3.3kV	1 x 10	77 / 0.41	1.5	0.8	99	1.95	8.2	10	1.32 kA	155
SDI16-3.3kV	1 x 16	123 / 0.41	1.5	0.8	130	1.24	9.2	11.1	2.11 kA	215
SDI25-3.3kV	1 x 25	190 / 0.41	1.8	1.0	173	0.795	11.3	13.4	3.3 kA	330
SDI35-3.3kV	1 X 35	268 / 0.41	1.8	1.0	214	0.565	12.5	14.6	4.62 kA	430
SDI50-3.3kV	1 x 50	384 / 0.41	1.8	1.0	270	0.393	14.1	16.4	6.60 kA	590
SDI70-3.3kV	1 x 70	545 / 0.41	1.8	1.0	340	0.277	15.9	18.3	9.24 kA	785
SDI95-3.3kV	1 x 95	724 / 0.41	2.2	1.0	410	0.210	18.2	20.8	12.54 kA	1030
SDI120-3.3kV	1 x 120	926 / 0.41	2.2	1.0	487	0.164	19.6	22.4	15.84 kA	1300
SDI150-3.3kV	1 x 150	1154 / 0.41	2.2	1.2	562	0.132	21.7	24.7	19.80 kA	1560
SDI185-3.3kV	1 x 185	1407 / 0.41	2.4	1.2	644	0.108	23.6	26.7	24.42 kA	1930
SDI240-3.3kV	1 x 240	1866 / 0.41	2.6	1.2	775	0.082	26.3	29.7	31.68 kA	2390
SDI300-3.3kV	1 x 300	1551 / 0.51	2.8	1.2	895	0.065	29.3	32.9	39.60 kA	3040
SDI400-3.3kV	1 x 400	1995 / 0.51	3.1	1.4	1079	0.049	32.5	36.4	52.80 kA	3960

Please Note**

Amperage ratings specified are in accordance with AS/NZS 3008.1.1.2009 Table 9.(Flexible "Spaced") @ 40°C
Further Current ratings are available in the technical section of this catalogue.
Derating factor may apply, refer to AS/NZS 3008.1.1.2009.

* The Formula to calculate these values is:

$$I_{\text{Short Circuit}} = \frac{(132 \times S)}{T}$$

Where: S = Cross Section (mm²)
T = Time period of short circuit (s)

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