Cable for festoon application
Rondoflex® (N)GRDGOEU

Application: These power and control cables are used when high mechanical stress and frequent movement/bending are combined. They are suitable for connection of reeling wagons of cranes (festoones), conveyor systems, moved parts of machine tools etc. The cables may be used for simple reeling applications. Due to the good UV- and ozone-resistance they may be used indoors and outdoors.

Construction and technical data:

Standard:	VDE 0250-814 (with ref. to)
Specification/Standard:	VDE 0250-814 (in Anlehnung/with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = fine stranded - DIN EN IEC 60228 (VDE 0295)
Insulation:	basic EPR
Material inner sheath:	rubber GM1b
Torsion:	+/- 25 °/m
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	DIN EN 60811-404 / VDE 0473-811-404 / IEC 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed random, m/min.:	60 m/min.
Operating speed festoon, m/min.:	240 m/min.

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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Bending radii

installation	<8 mm	8-12 mm	13-20 mm	>20 mm
free movement	3D	4D	5D	
reeling operation	5D			6D
festoon	3D	4D	5D	
drag chain	4D		5D	
multi roller	7.5D			

Rondoflex® (N)GRDGOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø max. [mm]	Ø [mm]	Cu	G [kg]
050589	04X4	4.95	43		15.2	154	365
050590	04X6	3.3	56		16.8	230.4	475
050591	04X10	1.91	78		19.1	384	680
050592	04X16	1.21	104		25.3	614.4	1152
050593	04X25	0.78	138		28.1	960	1600
050594	04X35	0.554	170		32.2	1344	2090
050595	04X50	0.386	212		39.1	1920	3080
050596	05X4	4.95	43		16.9	192	450
050597	05X6	3.3	56		18.5	288	575
050598	05X10	1.91	78		21.5	480	865
050599	05X16	1.21	104		27.5	768	1396
050600	05X25	0.78	138		32.9	1200	2074
052228	05X35	0.554	138	37.7		1680	2789
050601	03X35 + 03X16/3	0.554	170	30.3		1162	1806
050602	03X50 + 03X25/3	0.386	212		36	1680	2657
050603	03X70 + 03X35/3	0.272	263		41.9	2352	3706
050604	12X1.5	13.3	24		18.2	173	484
050605	18X1.5	13.3	24		19.7	259.2	662
050606	24X1.5	13.3	24	24.1		346	863
053415	07X2.5	7.98	32		17.4	168	456
050609	12X2.5	7.98	32		20	288	634
050610	18X2.5	7.98	32		23.5	432	917
050611	24X2.5	7.98	32		27	576	1194
054613	24X3.5	5.55	41		32	806.4	1608
050612	30X2.5	7.98	32		29.4	720	1425
050613	36X2.5	7.98	32		31.7	864	1689
052054	36X3.5	5.55	41	40.5		1210	2600
050615	06X(2X0.5)C	39	11		24.6	284	844
052067	03X(2X1)C	19.5	19		22.8	214	733
050617	09X(2X1)C	19.5	19		38.3	641	220
054600	03x(2X1.5)C	13.3	24		23.9	260	782
051515	06X(2X1.5)C	13.3	24		32.1	444	1382
054605	12x(2X1.5)C	13.3	24		42.6	998	2440

Rondoflex® (N)GRDGOEU-O

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Nominal voltage U: 1 kV

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Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø max. [mm]	Ø [mm]	Cu	G [kg]
050581	01X25	0.78	138		12.6	240	344
050582	01X35	0.554	170	13.9		336	437
050583	01X50	0.386	212		16.6	480	630
050584	01X70	0.272	263		18.3	672	847
050585	01X95	0.206	316	20.5		912	1082
050586	01X120	0.161	370		21.5	1152	1360
050587	01X150	0.129	424		24.7	1440	1650
050588	01X185	0.106	484		26.1	1776	2010

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø max.	outer diameter max.
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000