

Cable for festoon application

Rondoflex[®] (N)GRDGOEU



DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

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)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
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:	EN 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/mm ²
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.

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 U_o: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in 1.2 kV

three-phase systems:

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	I _{bl} [A]	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	1821
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	891
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
050615	06X(2X0.5)C	39	11	24.6	284	844
052067	03X(2X1)C	19.5	19	22.8	214	733
050618	06X(2X1)C	19.5	19	30.2	428	1308
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

Nominal voltage U_o: 0.6 kV
Nominal voltage U: 1 kV
Maximum permitted operating voltage in three-phase systems: 1.2 kV
Test voltage: 3.5 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	Ø [mm]	Cu	G [kg]
050581	01X25	0.78	138	12.6	240	344
050582	01X35	0.554	170	13.9	336	448
050583	01X50	0.386	212	16.6	480	630
050584	01X70	0.272	263	18.3	672	847
050585	01X95	0.206	316	20.1	912	1070
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

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000