

Cable for festoon application

RONDOFLEX[®] (C)-FC (N)GRDGCGOEU



DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application:

Screened Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems on moving parts of machines and crans. Suitable for dry, humid and wet rooms and for outdoor use combined with specific EMC (electromagnetic compatibility) requirements.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: Medium-chain chlorinated paraffins (MCCP)

- Bending radius: acc. to VDE 0298-3
- Ampacity: acc. to VDE 0298-4
- Peak voltage: 2400 V
- Frequency converter with U_{max}: 690 V
- PE: Extremely finely stranded copper, tinned (class FS)

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Material inner sheath:	rubber GM1b
Screen:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	Gummi 5GM3
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
Max. short circuit temperature at conductor, °C:	250 °C
°C:	
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm ²
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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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: 5 kV

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	I _{bl} [A]	Ø [mm]	Cu	G [kg]
050869	03X16 + 3G2,5 BK	1.21	104	25.4	758	1191
050845	03X25 + 3G4 BK	0.78	138	28.4	1134	1610
050874	03X35 + 3G6 BK	0.554	170	32.3	1547	2233
050870	03X50 + 3G10 BK	0.386	212	38.4	2182	3080
050846	03X70 + 3G10 BK	0.272	263	43.8	2892	3960
054656	03X95 + 3G16 BK	0.164	352	46.4	3760	4984
053416	04x2.5 BK	7.98	32	15	175	356
052184	04G4 BK	4.95	43	17.8	277	481
050847	04G6 BK	3.3	56	19.2	402	658
050871	04G10 BK	1.91	78	22.7	610	922

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