

Nexans Rheyfestoon[®] - cable for festoon application

(N)3GRDCG5G



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.

Construction and technical data:

Standard:	VDE 0250-812 (with reference to)
Conductor material:	bare copper strand
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Material inner sheath:	rubber EM6
Screen:	copper braid, tinned + synthetic fibre
Screen coverage:	80 %
Sheathing material:	rubber EM7
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
For outdoor use:	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 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.

(N)3GRDCG5G-O**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 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu [kg/km]	G [kg]
051991	01X70	0.272	21	1050	2100	806	867
052010	01X95	0.206	23	1425	2850	934	1072
051917	01X120	0.161	24	1800		1225	1313

(N)3GRDCG5G-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 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu [kg/km]	G [kg]
052009	06X(2X1)C	19.5	29			338	938
051990	20X(2X0.5)C	39	39.5			622	1749
051992	12X1	19.5	20	180	360	186	469
051993	12X1.5	13.3	21	270	540	215	549
051994	18X1.5	13.3	24	405	810	311	706
051995	36X1.5	13.3	30	810	1620	622	1291
051996	12X2.5	7.98	23	450	900	327	696
051997	18X2.5	7.98	26	675	1350	534	1019
051998	04X4	4.95	18	240	480	192	426
051916	04X6	3.3	24	360		402	545
051999	04X10	1.91	23	600	1200	153	792
052000	04X16	1.21	27	960	1920	662	1174
052001	05X16	1.21	29	1200	2400	827	1388
052002	03X16 + 3G16/3	1.21	32	960	1920	645	1470
051953	03X25 + 3G16/3	0.78	32	1365		962	1679
052003	03X35 + 3G16/3	0.554	32	1815	3630	1225	1858
052004	03X50 + 3G25/3	0.386	36	2625	5250	1863	2578
052005	03X16 + 3X2.5	1.21	25	757	1515	629	1031
052006	03X25 + 3X4	0.78	29	1185	2370	970	1406
052007	03X50 + 3X10	0.386	36	2400	4800	1863	2520
052008	03X70 + 3X16	0.272	42	3390	6780	2392	3483

RI	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000