

Cable for festoon application

Nexans Rheyfestoon[®] (N)3GRDG5G



Application: Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems, drag chains on moving parts of machines, conveyor facilities. Suitable for dry, humid and wet rooms and for outdoor use.

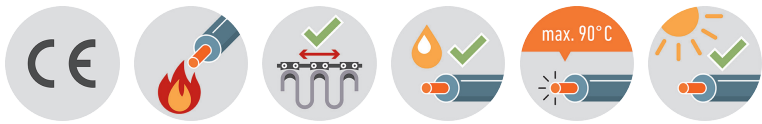
Bending radius: acc. to VDE 0298-3

Current-carrying capacity: 30 °C ambient temperature, acc. DIN VDE 0298-4

- single core: method F
- multi core, on ground, table 15

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 GM1b
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 60811-2-1
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
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:	240 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.

Nexans Rheyfestoon[®] (N)3GRDG5G-O

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 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	Ø [mm]	F _{zv} [N]	F _{zp} [N]	F _{zd} [N]	Cu	G [kg]
051899	01X35	0.554	176	12.4	1050	525	1050	336	390
051964	01X50	0.386	216	15	1500	750	1500	480	567
051965	01X70	0.272	279	16.9	2100	1050	2100	672	757
051966	01X95	0.206	342	18.7	2850	1425	2850	928	989
051900	01X120	0.161	400	20.9	3600	1800	3600	1152	1250
051901	01X150	0.129	464	24	4500	2250	4500	1440	1557
051913	06X(2X1)C	19.5	18	28	360	180	360	249	752

Nexans Rheyfestoon[®] (N)3GRDG5G-J

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 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	Ø [mm]	F _{zv} [N]	F _{zp} [N]	F _{zd} [N]	Cu	G [kg]
051968	12X1.5	13.3	23	19	540	270	540	173	462
051969	18X1.5	13.3	23	22	810	405	810	259	620
051970	24X1.5	13.3	23	23.1	1080	540	1080	346	831
051906	18X2.5	7.98	30	21.4	1350	675	1350	432	866
051908	30X2.5	7.98	30	26.6	1620	810	1620	720	1338
051973	36X2.5	7.98	30	32	2700	1350	2700	864	1558
051910	04X6	3.3	53	19	720	360	720	230.4	488
051958	04X10	1.91	74	21	1200	600	1200	384	707
051912	04X16	1.21	74	25	1920	960	1920	614.4	1061
051959	04X25	0.78	131	25	3000	1500	3000	960	1485
051982	04X35	0.554	162	32	4200	2100	4200	1344	1946
051984	04X50	0.386	202	38	6000	3000	6000	1920	2767

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
Ø	outer diameter approx.
F _{zv}	Tensile strength (during installation)
F _{zp}	Tensile strength (permanent)
F _{zd}	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000