

# Nexans Rheyfestoon<sup>®</sup> - 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:

<b>Standard:</b>	VDE 0250-812 (with reference to)
<b>Conductor material:</b>	bare copper strand
<b>Conductor construction:</b>	Class 5 = flexible
<b>Insulation:</b>	HEPR
<b>Material inner sheath:</b>	rubber EM6
<b>Screen:</b>	copper braid, tinned + synthetic fibre
<b>Screen coverage:</b>	80 %
<b>Sheathing material:</b>	rubber EM7
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>UV-resistant:</b>	yes
<b>Oil-resistant:</b>	EN 60811-404
<b>Ozone-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	90 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-50 - +80 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-35 - +80 °C
<b>Maximum tensile strength at the conductor:</b>	15 N/mm <sup>2</sup>
<b>Operating speed festoon, m/min.:</b>	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-J**

**Nominal voltage U<sub>o</sub>:** 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]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051993	12X1.5	13.3	21	270	540	215	549

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