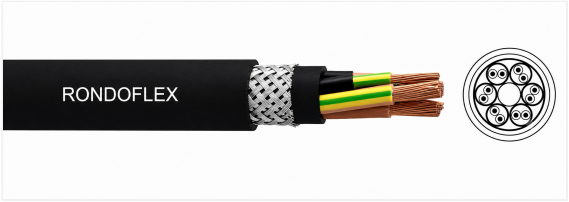
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# RONDOFLEX (N)GRDGOEU

Low Voltage Round Cables for Festoon Application (0.6/1 kV)




## APPLICATION

Flexible low voltage round cable for application under high mechanical stresses. Mainly used for festoon systems on container cranes, gantry cranes, and other material handling equipment. Suitable for indoor and outdoor use.

## GLOBAL DATA

| | |
|---|---|
| **Brand** | RONDOFLEX |
| **Type Designation** | (N)GRDGOEU-J / -O |
| **Standard** | Based on DIN VDE 0250-814 |

## DESIGN FEATURES

| | |
|---|---|
| **Conductor** | Electrolytic copper bare, finely stranded class 5 or 6 acc. to DIN VDE 0295 |
| **Insulation** | Rubber compound type 3GI3 acc. to DIN VDE 0207-20 |
| **Core Identification** | Acc. to DIN VDE 0293-308 |
| **Individual Screen** | Braid screen made of tinned copper wires, transfer impedance optimized at 30 MHz. |
| **Sheath System** | **Inner Sheath:** Rubber compound GM1b, Colour: black.<br>**Outer Sheath:** High grade special compound (at least 5GM3) based on PCP; Colour: black. Abrasion, oil, and moisture resistant. |

## ELECTRICAL PARAMETERS

| | |
|---|---|
| **Rated Voltage (Uo/U)** | 0.6/1 kV (600/1000V) |
| **Max. Permissible AC Voltage** | 0.7/1.2 kV |
| **Max. Permissible DC Voltage** | 0.9/1.8 kV |
| **AC Test Voltage** | 3.5 kV (5 Minutes) |
| **Current Carrying Capacity** | Acc. to DIN VDE 0298-4 |

## THERMAL PARAMETERS

| | |
|---|---|
| **Max. Conductor Temperature** | 90 °C |
| **Max. Short Circuit Temperature** | 250 °C |
| **Ambient Temp (Fixed)** | min -50 °C ; max +80 °C |
| **Ambient Temp (Flexible)** | min -35 °C ; max +80 °C |

## MECHANICAL PARAMETERS

| | |
|---|---|
| **Max. Tensile Load** | 15 $N/mm^2$ |
| **Torsional Stress** | ± 25 °/m |
| **Min. Bending Radius** | Acc. to DIN VDE 0298 part 3 |
| **Min. Distance (S-type changes)** | 20 X D |
| **Travel Speed** | Trolley (festoon system): up to 240 m/min; Reeling: 60 m/min |

## CHEMICAL PARAMETERS

| | |
|---|---|
| **Resistance to Oil** | Acc. to DIN EN 60811-404 |
| **Weather Resistance** | Unrestricted use outdoors and indoors, resistant to ozone, UV and moisture. |

## COMPREHENSIVE SPECIFICATIONS

| Cores x Cross Section | Cond. Dia (mm) | Outer Dia (min/max mm) | Weight (kg/km) | Tensile (N) | Resistance (Ω/km) | Capacity (A) |
|---|---|---|---|---|---|---|
| **(N)GRDGOEU-O power cables, single-core design** | | | | | | |
| 1x25 | 6.7 | 11.4 - 12.6 | 330 | 370 | 0.78 | 138 |
| 1x35 | 8.0 | 12.3 - 13.9 | 430 | 520 | 0.55 | 170 |
| 1x50 | 9.5 | 15.0 - 16.6 | 620 | 750 | 0.39 | 212 |
| 1x70 | 11.0 | 16.3 - 18.3 | 830 | 1050 | 0.27 | 263 |
| 1x95 | 12.8 | 18.5 - 20.5 | 1070 | 1420 | 0.21 | 316 |
| 1x120 | 14.4 | 20.3 - 22.3 | 1330 | 1800 | 0.16 | 370 |
| **(N)GRDGOEU-J power cables, multicore design** | | | | | | |
| 3x35+3x16/3 | 8.0 | 27.3 - 30.3 | 1780 | 1570 | 0.55 | 170 |
| 3x50+3x25/3 | 9.5 | 33.0 - 36.0 | 2570 | 2250 | 0.39 | 212 |
| 3x70+3x35/3 | 11.0 | 38.9 - 41.9 | 3570 | 3150 | 0.27 | 263 |
| 4x10 | 4.0 | 18.0 - 20.0 | 680 | 600 | 1.91 | 78 |
| 4x16 | 5.7 | 23.3 - 25.3 | 1110 | 960 | 1.21 | 104 |
| 4x25 | 6.8 | 26.9 - 29.9 | 1610 | 1500 | 0.78 | 138 |
| 5x10 | 4.0 | 20.2 - 22.2 | 860 | 750 | 1.91 | 78 |
| 5x16 | 5.7 | 24.5 - 27.5 | 1340 | 1200 | 1.21 | 104 |
| 5x25 | 6.8 | 29.9 - 32.9 | 1990 | 1870 | 0.78 | 138 |
| **(N)GRDGOEU-J control cables** | | | | | | |
| 12x1,5 | 1.6 | 16.2 - 18.2 | 460 | 270 | 13.3 | 24 |
| 18x1,5 | 1.6 | 18.7 - 20.7 | 630 | 400 | 13.3 | 24 |
| 24x1,5 | 1.6 | 22.1 - 24.1 | 840 | 540 | 13.3 | 24 |
| 12x2,5 | 2.0 | 18.0 - 20.0 | 600 | 450 | 7.98 | 32 |
| 18x2,5 | 2.0 | 21.5 - 23.5 | 870 | 670 | 7.98 | 32 |
| 24x2,5 | 2.0 | 24.0 - 27.0 | 1140 | 900 | 7.98 | 32 |


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**UAE Website**

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