



Round rubber festoon cables

(N)GRDGÖU

0.6/1 kV Round EPR/PCP Rubber Crane Festoon Cable

Heavy-duty round EPR/polychloroprene rubber power and control festoon cable

0.6/1 kV

DIN VDE 0250-814

EPR / 5GM3 PCP

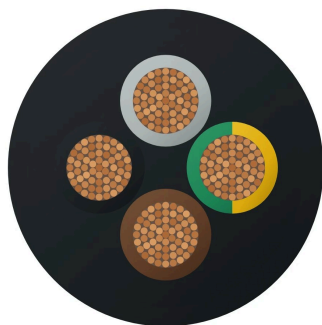


Application

Heavy-duty 0.6/1 kV round rubber crane festoon cable ((N)GRDGÖU-J/O / RONDOfLEX) to DIN VDE 0250-814 with Class 5 copper conductors, 3GI3 EPR insulation, GM1b EPR inner sheath and oil-, UV- and weather-resistant 5GM3 polychloroprene outer sheath.

Typical uses: Container & port gantry cranes, Steelworks & foundry overhead cranes, Bulk material handling & conveyors, Machine tool & transfer line trolleys, Outdoor yard & ship-to-shore cranes, Hoisting gear & industrial lifts

Construction



Cross-section, not to scale

1 Conductor

IEC 60228 / DIN VDE 0295
Class 5

2 Core insulation

3 Inner sheath

4 Outer sheath

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV (max. AC 0.7/1.2 kV · DC 0.9/1.8 kV)	AC test voltage	3.5 kV (5 min)
Current rating basis	DIN VDE 0298-4 at 30 °C ambient in free air	Max. conductor operating temperature	+90 °C
Max. short-circuit temperature (≤ 5 s)	+250 °C	Ambient temperature — flexing / mobile	-35 to +80 °C
Ambient temperature — fixed installation	-50 to +80 °C	Max. travel speed	Up to 240 m/min in crane festoon systems
Max. tensile load on conductor	15 N/mm ²	Min. bending radius	4 × D fixed · 5 × D (up to 6 × D) flexing per DIN VDE 0298-3
Standards	DIN VDE 0250-814 · DIN VDE 0298-3/-4 · IEC 60228 Class 5	Standard packing	500 m on wooden drums or cut-to-length festoon sets

Sizes

37 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation -J	Order designation -O	Cores × mm ²	AWG ≈	OD min mm	OD max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Max. pull N
Single-core 25–185 mm ² 8 sizes									
☐ (N)GRDGÖU-J 1G25	(N)GRDGÖU-O 1×25	1 × 25	4	12.6	12.6	240	386	63	375
☐ (N)GRDGÖU-J 1G35	(N)GRDGÖU-O 1×35	1 × 35	2	13.9	14.1	336	493	71	525
☐ (N)GRDGÖU-J 1G50	(N)GRDGÖU-O 1×50	1 × 50	1	15.9	16.6	480	670	83	750
☐ (N)GRDGÖU-J 1G70	(N)GRDGÖU-O 1×70	1 × 70	2/0	17.9	18.5	672	900	93	1,050
☐ (N)GRDGÖU-J 1G95	(N)GRDGÖU-O 1×95	1 × 95	3/0	20.9	21.1	912	1,120	106	1,425
☐ (N)GRDGÖU-J 1G120	(N)GRDGÖU-O 1×120	1 × 120	4/0	22.8	22.8	1,152	1,430	114	1,800
☐ (N)GRDGÖU-J 1G150	(N)GRDGÖU-O 1×150	1 × 150	300 kcmil	24.5	24.9	1,440	1,740	125	2,250
☐ (N)GRDGÖU-J 1G185	(N)GRDGÖU-O 1×185	1 × 185	350 kcmil	27.8	27.9	1,776	2,150	140	2,775
3-core 4–50 mm ² 7 sizes									
☐ (N)GRDGÖU-J 3G4	(N)GRDGÖU-O 3×4	3 × 4	12	15.8	15.8	115	400	79	180
☐ (N)GRDGÖU-J 3G6	(N)GRDGÖU-O 3×6	3 × 6	10	17.0	17.0	173	490	85	270
☐ (N)GRDGÖU-J 3G10	(N)GRDGÖU-O 3×10	3 × 10	8	20.9	20.9	288	750	105	450
☐ (N)GRDGÖU-J 3G16	(N)GRDGÖU-O 3×16	3 × 16	6	24.3	24.3	461	1,050	122	720
☐ (N)GRDGÖU-J 3G25	(N)GRDGÖU-O 3×25	3 × 25	4	28.7	28.7	720	1,530	144	1,125
☐ (N)GRDGÖU-J 3G35	(N)GRDGÖU-O 3×35	3 × 35	2	32.7	32.7	1,008	2,020	164	1,575
☐ (N)GRDGÖU-J 3G50	(N)GRDGÖU-O 3×50	3 × 50	1	38.4	38.4	1,440	2,820	192	2,250
4-core 4–50 mm ² 7 sizes									
☐ (N)GRDGÖU-J 4G4	(N)GRDGÖU-O 4×4	4 × 4	12	15.5	18.8	154	459	94	240
☐ (N)GRDGÖU-J 4G6	(N)GRDGÖU-O 4×6	4 × 6	10	17.9	20.4	230	570	102	360
☐ (N)GRDGÖU-J 4G10	(N)GRDGÖU-O 4×10	4 × 10	8	20.2	24.5	384	890	123	600
☐ (N)GRDGÖU-J 4G16	(N)GRDGÖU-O 4×16	4 × 16	6	24.9	30.0	614	1,330	150	960
☐ (N)GRDGÖU-J 4G25	(N)GRDGÖU-O 4×25	4 × 25	4	29.9	35.2	960	1,950	176	1,500
☐ (N)GRDGÖU-J 4G35	(N)GRDGÖU-O 4×35	4 × 35	2	33.1	38.2	1,344	2,450	191	2,100
☐ (N)GRDGÖU-J 4G50	(N)GRDGÖU-O 4×50	4 × 50	1	38.7	44.8	1,920	3,450	224	3,000
5-core 4–25 mm ² 5 sizes									
☐ (N)GRDGÖU-J 5G4	(N)GRDGÖU-O 5×4	5 × 4	12	17.7	20.1	192	540	101	300
☐ (N)GRDGÖU-J 5G6	(N)GRDGÖU-O 5×6	5 × 6	10	19.5	22.6	288	720	113	450
☐ (N)GRDGÖU-J 5G10	(N)GRDGÖU-O 5×10	5 × 10	8	22.8	26.3	480	1,050	132	750
☐ (N)GRDGÖU-J 5G16	(N)GRDGÖU-O 5×16	5 × 16	6	27.6	32.3	768	1,580	162	1,200

Order designation -J	Order designation -O	Cores × mm ²	AWG ≈	OD min mm	OD max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Max. pull N
☐ (N)GRDGÖU-J 5G25	(N)GRDGÖU-O 5×25	5 × 25	4	32.5	37.3	1,200	2,320	187	1,875
Control 12–36 cores 10 sizes									
☐ (N)GRDGÖU-J 12G1.5	(N)GRDGÖU-O 12×1.5	12 × 1.5	16	18.2	20.8	173	600	104	270
☐ (N)GRDGÖU-J 18G1.5	(N)GRDGÖU-O 18×1.5	18 × 1.5	16	20.7	24.4	259	840	122	405
☐ (N)GRDGÖU-J 24G1.5	(N)GRDGÖU-O 24×1.5	24 × 1.5	16	24.1	29.3	346	1,160	147	540
☐ (N)GRDGÖU-J 30G1.5	(N)GRDGÖU-O 30×1.5	30 × 1.5	16	25.3	30.6	432	1,300	153	675
☐ (N)GRDGÖU-J 36G1.5	(N)GRDGÖU-O 36×1.5	36 × 1.5	16	27.6	32.9	518	1,510	165	810
☐ (N)GRDGÖU-J 12G2.5	(N)GRDGÖU-O 12×2.5	12 × 2.5	14	19.9	23.9	288	840	120	450
☐ (N)GRDGÖU-J 18G2.5	(N)GRDGÖU-O 18×2.5	18 × 2.5	14	23.5	29.5	432	1,240	148	675
☐ (N)GRDGÖU-J 24G2.5	(N)GRDGÖU-O 24×2.5	24 × 2.5	14	27.0	33.7	576	1,640	169	900
☐ (N)GRDGÖU-J 30G2.5	(N)GRDGÖU-O 30×2.5	30 × 2.5	14	29.4	35.3	720	1,850	177	1,125
☐ (N)GRDGÖU-J 36G2.5	(N)GRDGÖU-O 36×2.5	36 × 2.5	14	31.4	38.4	864	2,210	192	1,350

– Outer diameter range (OD min / OD max) spans DIN VDE 0250-814 factory tolerances; Min. bend R is 5 × D for flexible festoon operation.

Electrical & ampacity data

14 sizes

Cross-section mm ²	AWG ≈	Max. R20 Ω/km	Current rating in air 30 °C, A	Short-circuit 1 s kA
1.5	16	13.3	23	0.21
2.5	14	7.98	30	0.36
4	12	4.95	41	0.57
6	10	3.3	53	0.86
10	8	1.91	74	1.43
16	6	1.21	99	2.29
25	4	0.78	131	3.58
35	2	0.554	162	5.01
50	1	0.386	202	7.15
70	2/0	0.272	250	10.01
95	3/0	0.206	301	13.59
120	4/0	0.161	352	17.16
150	300 kcmil	0.129	404	21.45
185	350 kcmil	0.106	461	26.46

– Current ratings are stated per DIN VDE 0298-4 for 3 loaded cores at 30 °C ambient in free air; apply multicore grouping factors for ≥ 7 control cores.

Standards and approvals

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/n-grdgou-epr-cpe-round-festoon-cable



Typical values for this cable type, based on DIN VDE 0250-814. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.