



Round rubber festoon cables

(N)GRDGÖU-O(C)

0.6/1 kV Screened Round Rubber Crane Festoon Cable

Round EPR/polychloroprene festoon control & bus cable with screened cores or pairs



0.6/1 kV

DIN VDE 0250-814

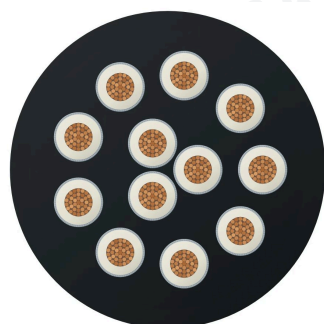
Per-Core / Pair EMC

Application

Screened 0.6/1 kV round rubber crane festoon cable ((N)GRDGÖU-O(C) / RONDOfLEX) with individually copper-braided control cores, shielded twisted pairs or hybrid unscreened/screened control bundles inside a GM1b EPR inner sheath and 5GM3 PCP jacket.

Typical uses: Container & STS gantry cranes, Automated RTG / RMG yard cranes, Steelworks & ladle crane control, Bulk material handling & stackers, Machine tool & transfer line control, Port & heavy hoist instrumentation

Construction



Cross-section, not to scale

1	Conductor	IEC 60228 / DIN VDE 0295
2	Core insulation	DIN VDE 0207-20
3	Individual core / pair screen	
4	Inner sheath	DIN VDE 0250-814
5	Outer sheath	

Technical data

Typical values

Rated voltage U ₀ /U	0.6/1 kV (max. AC 0.7/1.2 kV · DC 0.9/1.8 kV)	AC test voltage	2.5 kV
Screen construction	Tinned copper braid (~60% on screened cores, ~80% on twisted pairs)	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	Acc. to DIN VDE 0298-3
Standards	DIN VDE 0250-814 / 0250-809 · DIN VDE 0298-3/-4 · IEC 60228 Class 5/6	Standard packing	500 m on wooden drums or cut-to-length festoon sets

Sizes

11 standard constructions

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

Order designation	Construction	AWG ≈	OD min mm	OD max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Max. pull N
Screened cores 12–36×1(C) 5 sizes								
☐ (N)GRDGÖU-O 12×1(C)	12 × 1(C)	18	20.0	23.5	239	755	118	180
☐ (N)GRDGÖU-O 18×1(C)	18 × 1(C)	18	28.4	28.4	346	1,100	142	270
☐ (N)GRDGÖU-O 24×1(C)	24 × 1(C)	18	33.2	33.2	478	1,510	166	360
☐ (N)GRDGÖU-O 30×1(C)	30 × 1(C)	18	33.3	33.3	585	1,660	167	450
☐ (N)GRDGÖU-O 36×1(C)	36 × 1(C)	18	36.2	36.2	717	1,960	181	540
Screened pairs 0.5–1.0 mm ² 4 sizes								
☐ (N)GRDGÖU-O 6×(2×0.5)C	6 × (2 × 0.5)C	20	25.1	25.1	284	850	126	90
☐ (N)GRDGÖU-O 9×(2×0.5)C	9 × (2 × 0.5)C	20	31.3	31.3	420	1,340	157	135
☐ (N)GRDGÖU-O 6×(2×1)C	6 × (2 × 1)C	18	31.1	32.1	427	1,260	161	180
☐ (N)GRDGÖU-O 9×(2×1)C	9 × (2 × 1)C	18	38.9	40.2	641	2,030	201	270
Hybrid 2.5 + 1(C) 2 sizes								
☐ (N)GRDGÖU-O 19×2.5 + 5×1(C)	19 × 2.5 + 5 × 1(C)	14	30.3	31.0	556	1,650	155	788
☐ (N)GRDGÖU-O 25×2.5 + 5×1(C)	25 × 2.5 + 5 × 1(C)	14	32.1	33.0	700	1,920	165	1,013

– Copper weight (kg/km) includes both the main conductors and the individual tinned copper braid screens.

Electrical & conductor data

3 sizes

Cross-section mm ²	AWG ≈	Max. R ₂₀ Ω/km	Base rating in air 30 °C, A	Short-circuit 1 s kA	Used in
0.5	20	39	10	0.07	6×(2×0.5)C, 9×(2×0.5)C
1.0	18	19.5	19	0.14	12×1(C)–36×1(C), 6×(2×1)C, 9×(2×1)C
2.5	14	7.98	30	0.36	19×2.5+5×1(C), 25×2.5+5×1(C)

– Apply DIN VDE 0298-4 multicore grouping factors for simultaneously loaded 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-o-c-screened-epr-cpe-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.