



Round PUR festoon & reeling cables

(N)12YRD11YT11Y-J

0.6/1 kV PUR Cable with Anti-Torsion Textile Braid

Double-sheathed halogen-free TPE-E/PUR drag-chain, festoon & reeling cable
(25 N/mm²)



0.6/1 kV

25 N/mm² Tensile

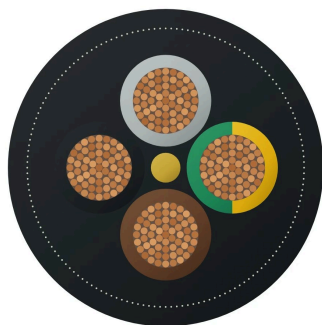
Double PUR + Textile Braid

Application

Heavy-duty 0.6/1 kV halogen-free PUR crane cable ((N)12YRD11YT11Y-J) with 12Y TPE-E core insulation, central aramid carrier, inner 11Y PUR sheath, anti-torsion textile braid ('T') and outer 11Y PUR sheath rated for 25 N/mm² pull and 50 m water (AD8).

Typical uses: Container & port gantry cranes, Motorized crane & hoist reeling drums, Long-travel drag chains & transfer cars, Cold-storage & arctic material handling, Submerged scraper & treatment bridges, Surface & underground mining equipment

Construction



Cross-section, not to scale

- 1 Conductor
- 2 Central support element
- 3 Core insulation
- 4 Inner sheath
- 5 Anti-torsion textile braid ('T')
- 6 Outer sheath

DIN EN / IEC 60228 Class 5

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 (5 min)
Max. conductor operating temperature	+90 °C (short-circuit +250 °C)	Ambient temperature — flexing / mobile	-40 to +90 °C
Ambient temperature — fixed installation	-50 to +90 °C	Max. travel speed	Up to 210 m/min in festoon & drag-chain systems; up to 180 m/min in reeling
Max. tensile load on conductor	25 N/mm ² (reinforced with central aramid core + anti-torsion textile braid)	Min. bending radius	6 × D fixed · 7.5 × D free-moving · 10 × D reeling/festoon (DIN VDE 0298-3)
Standards	DIN VDE 0250-1 · DIN EN/IEC 60228 Class 5 · EN 60754 · EN 60332-1-2 · EN 60811-404	Standard packing	500 m / 1,000 m on wooden drums or custom reeling/chain lengths

Sizes

29 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
4-core 1.5–35 mm ² 8 sizes								
☐ (N)12YRD11YT11Y-J 4G1.5	4 × 1.5	16	11.6	13.1	58	170	99	150
☐ (N)12YRD11YT11Y-J 4G2.5	4 × 2.5	14	13.1	14.6	96	225	110	250
☐ (N)12YRD11YT11Y-J 4G4	4 × 4	12	14.9	16.4	154	320	123	400
☐ (N)12YRD11YT11Y-J 4G6	4 × 6	10	16.6	18.1	230	420	136	600
☐ (N)12YRD11YT11Y-J 4G10	4 × 10	8	19.1	20.6	384	620	155	1,000
☐ (N)12YRD11YT11Y-J 4G16	4 × 16	6	21.8	23.8	614	880	179	1,600
☐ (N)12YRD11YT11Y-J 4G25	4 × 25	4	26.5	28.5	960	1,335	214	2,500
☐ (N)12YRD11YT11Y-J 4G35	4 × 35	2	29.6	31.6	1,344	1,780	237	3,500
5-core 1.5–16 mm ² 6 sizes								
☐ (N)12YRD11YT11Y-J 5G1.5	5 × 1.5	16	12.3	13.8	72	195	104	188
☐ (N)12YRD11YT11Y-J 5G2.5	5 × 2.5	14	14.0	15.5	120	270	117	313
☐ (N)12YRD11YT11Y-J 5G4	5 × 4	12	16.0	17.5	192	380	132	500
☐ (N)12YRD11YT11Y-J 5G6	5 × 6	10	17.9	19.4	288	505	146	750
☐ (N)12YRD11YT11Y-J 5G10	5 × 10	8	20.7	22.7	480	750	171	1,250
☐ (N)12YRD11YT11Y-J 5G16	5 × 16	6	23.7	25.7	768	1,030	193	2,000
Control 7–48 cores 13 sizes								
☐ (N)12YRD11YT11Y-J 7G1.5	7 × 1.5	16	13.9	15.4	101	180	116	263
☐ (N)12YRD11YT11Y-J 7G2.5	7 × 2.5	14	15.7	17.2	168	255	129	438
☐ (N)12YRD11YT11Y-J 12G1.5	12 × 1.5	16	18.2	19.7	173	350	148	450
☐ (N)12YRD11YT11Y-J 12G2.5	12 × 2.5	14	21.4	23.4	288	440	176	750
☐ (N)12YRD11YT11Y-J 18G1.5	18 × 1.5	16	18.6	20.1	259	635	151	675
☐ (N)12YRD11YT11Y-J 18G2.5	18 × 2.5	14	21.7	23.7	432	730	178	1,125
☐ (N)12YRD11YT11Y-J 24G1.5	24 × 1.5	16	21.6	23.6	346	675	177	900
☐ (N)12YRD11YT11Y-J 24G2.5	24 × 2.5	14	25.5	27.5	576	985	207	1,500
☐ (N)12YRD11YT11Y-J 28G1.5	28 × 1.5	16	23.1	25.1	403	920	189	1,050
☐ (N)12YRD11YT11Y-J 30G1.5	30 × 1.5	16	23.9	25.9	432	835	195	1,125
☐ (N)12YRD11YT11Y-J 30G2.5	30 × 2.5	14	28.3	30.3	720	1,230	228	1,875
☐ (N)12YRD11YT11Y-J 36G2.5	36 × 2.5	14	28.3	30.3	864	1,315	228	2,250
☐ (N)12YRD11YT11Y-J 48G1.5	48 × 1.5	16	28.6	30.6	691	1,535	230	1,800

Order designation	Construction	AWG ≈	OD min mm	OD max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Max. pull N
Composite power + 2×(4×1.5)C 2 sizes								
☐ (N)12YRD11YT11Y-J 4G16+2×(4×1.5)C	4G16 + 2×(4×1.5)C	6	25.8	27.8	790	1,190	209	1,900
☐ (N)12YRD11YT11Y-J 4G35+2×(4×1.5)C	4G35 + 2×(4×1.5)C	2	34.7	36.7	1,520	2,195	276	3,800

– Max. pull (N) is calculated at 25 N/mm² of total conductor cross-section; 5G16 cable weight (1,030 kg/km) is taken from DIN VDE 0250 D12Y11YU11Y reference data.

Electrical & ampacity data

8 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	24	0.21
2.5	14	7.98	32	0.36
4	12	4.95	43	0.57
6	10	3.3	56	0.86
10	8	1.91	78	1.43
16	6	1.21	104	2.29
25	4	0.78	138	3.58
35	2	0.554	170	5.01

– Current ratings apply at 30 °C ambient in free air per DIN VDE 0298-4.

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-12yrd11yt11y-j-pur-cable-with-textile-braid-sheath



Typical values for this cable type, based on DIN VDE 0250-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.