

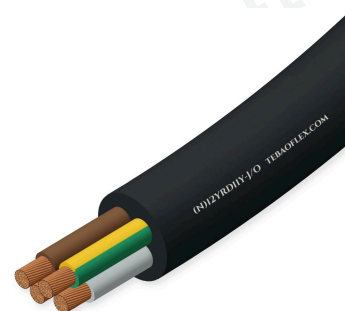


Round PUR festoon & chain cables

(N)12YRD11Y-J/O

0.6/1 kV Halogen-Free PUR Drag-Chain & Festoon Cable

Round halogen-free TPE-E/PUR crane festoon and drag-chain cable with aramid core



0.6/1 kV

(N)12YRD11Y-J/O

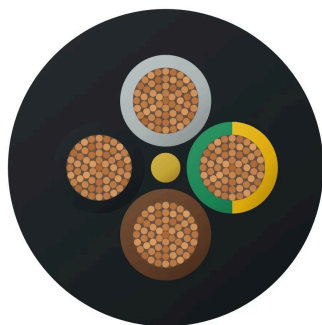
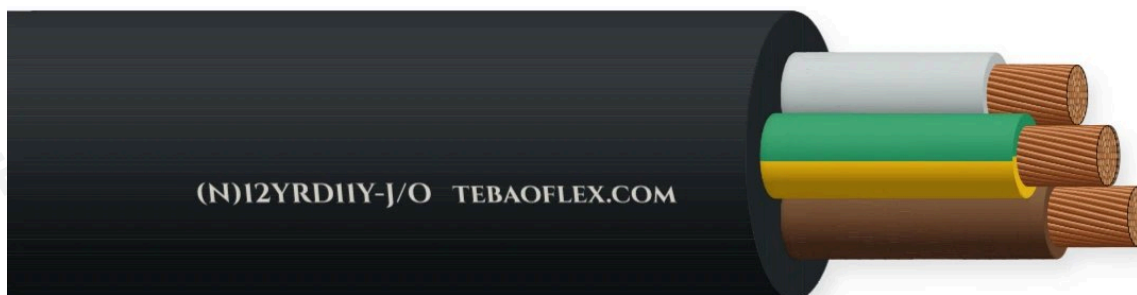
Halogen-Free PUR · AD8

Application

Halogen-free 0.6/1 kV polyurethane drag-chain and crane festoon cable ((N)12YRD11Y-J/O) with Class 5 copper conductors, 12Y polyester elastomer core insulation, central aramid-yarn support element and 11Y PUR jacket rated to 50 m water depth (AD8).

Typical uses: Container & port gantry cranes, Machine tool & conveyor drag chains, Cold-storage & arctic crane systems, Wastewater & submerged scraper bridges, Automated warehouse transfer cars, Mining & bulk material handling

Construction



Cross-section, not to scale

1 Conductor

DIN EN / IEC 60228 Class 5

2 Central support element**3** Core insulation**4** Core arrangement**5** 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	2.5 kV
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 210–240 m/min in festoon & drag-chain systems; up to 60 m/min in light reeling
Max. tensile load on conductor	15 N/mm ²	Min. bending radius	6 × D fixed · 7.5 × D free-moving (6 × D per DIN VDE 0298-3)
Standards	DIN VDE 0250-1 · DIN EN/IEC 60228 Class 5 · EN 60754 · EN 60811-404 · EN 60332-1-2	Standard packing	500 m / 1,000 m on wooden drums or cut-to-length chain sets

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 -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)12YRD11Y-J 1G25	(N)12YRD11Y-O 1×25	1 × 25	4	10.7	12.2	240	290	92	375
☐ (N)12YRD11Y-J 1G35	(N)12YRD11Y-O 1×35	1 × 35	2	12.0	13.5	336	380	102	525
☐ (N)12YRD11Y-J 1G50	(N)12YRD11Y-O 1×50	1 × 50	1	13.8	15.3	480	530	115	750
☐ (N)12YRD11Y-J 1G70	(N)12YRD11Y-O 1×70	1 × 70	2/0	15.8	17.3	672	725	130	1,050
☐ (N)12YRD11Y-J 1G95	(N)12YRD11Y-O 1×95	1 × 95	3/0	17.9	19.4	912	965	146	1,425
☐ (N)12YRD11Y-J 1G120	(N)12YRD11Y-O 1×120	1 × 120	4/0	19.4	20.9	1,152	1,200	157	1,800
☐ (N)12YRD11Y-J 1G150	(N)12YRD11Y-O 1×150	1 × 150	300 kcmil	21.9	23.4	1,440	1,475	176	2,250
☐ (N)12YRD11Y-J 1G185	(N)12YRD11Y-O 1×185	1 × 185	350 kcmil	24.7	26.2	1,776	1,770	197	2,775
4-core 1.5–50 mm ² 9 sizes									
☐ (N)12YRD11Y-J 4G1.5	(N)12YRD11Y-O 4×1.5	4 × 1.5	16	8.6	10.1	58	110	76	90
☐ (N)12YRD11Y-J 4G2.5	(N)12YRD11Y-O 4×2.5	4 × 2.5	14	10.0	11.5	96	155	87	150
☐ (N)12YRD11Y-J 4G4	(N)12YRD11Y-O 4×4	4 × 4	12	11.7	13.2	154	235	99	240
☐ (N)12YRD11Y-J 4G6	(N)12YRD11Y-O 4×6	4 × 6	10	13.2	14.7	230	320	111	360
☐ (N)12YRD11Y-J 4G10	(N)12YRD11Y-O 4×10	4 × 10	8	15.6	17.1	384	495	129	600
☐ (N)12YRD11Y-J 4G16	(N)12YRD11Y-O 4×16	4 × 16	6	18.2	19.7	614	730	148	960
☐ (N)12YRD11Y-J 4G25	(N)12YRD11Y-O 4×25	4 × 25	4	22.3	24.3	960	1,130	183	1,500
☐ (N)12YRD11Y-J 4G35	(N)12YRD11Y-O 4×35	4 × 35	2	24.9	26.9	1,344	1,540	202	2,100
☐ (N)12YRD11Y-J 4G50	(N)12YRD11Y-O 4×50	4 × 50	1	29.8	31.8	1,920	2,185	239	3,000
5-core 2.5–16 mm ² 5 sizes									
☐ (N)12YRD11Y-J 5G2.5	(N)12YRD11Y-O 5×2.5	5 × 2.5	14	10.8	12.3	120	190	93	188
☐ (N)12YRD11Y-J 5G4	(N)12YRD11Y-O 5×4	5 × 4	12	12.7	14.2	192	285	107	300
☐ (N)12YRD11Y-J 5G6	(N)12YRD11Y-O 5×6	5 × 6	10	14.5	16.0	288	395	120	450
☐ (N)12YRD11Y-J 5G10	(N)12YRD11Y-O 5×10	5 × 10	8	17.1	18.6	480	615	140	750
☐ (N)12YRD11Y-J 5G16	(N)12YRD11Y-O 5×16	5 × 16	6	19.9	21.4	768	910	161	1,200
Control 7–24 cores 7 sizes									
☐ (N)12YRD11Y-J 7G2.5	(N)12YRD11Y-O 7×2.5	7 × 2.5	14	12.6	14.1	168	255	106	262
☐ (N)12YRD11Y-J 12G1.5	(N)12YRD11Y-O 12×1.5	12 × 1.5	16	14.8	16.3	173	330	123	270
☐ (N)12YRD11Y-J 12G2.5	(N)12YRD11Y-O 12×2.5	12 × 2.5	14	17.7	19.2	288	490	144	450
☐ (N)12YRD11Y-J 18G1.5	(N)12YRD11Y-O 18×1.5	18 × 1.5	16	15.1	16.6	259	380	125	405
☐ (N)12YRD11Y-J 18G2.5	(N)12YRD11Y-O 18×2.5	18 × 2.5	14	18.1	19.6	432	580	147	675

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)12YRD11Y-J 24G1.5	(N)12YRD11Y-O 24×1.5	24 × 1.5	16	18.0	19.5	346	525	147	540
☐ (N)12YRD11Y-J 24G2.5	(N)12YRD11Y-O 24×2.5	24 × 2.5	14	21.6	23.6	576	790	177	900

– Min. bend R (mm) is calculated at 7.5 × OD max for free-moving drag-chain/festoon duty; Max. pull (N) is based on 15 N/mm² total copper cross-section.

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	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
50	1	0.386	212	7.15
70	2/0	0.272	263	10.01
95	3/0	0.206	316	13.59
120	4/0	0.161	370	17.16
150	300 kcmil	0.129	424	21.45
185	350 kcmil	0.106	484	26.46

– 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-12yrd11y-j-o-pur-drag-chain-festoon-cable



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.