



Round PUR festoon & chain cables

(N)12YRDC11Y-J/O

0.6/1 kV Screened PUR Drag-Chain & Festoon Cable

EMC copper-screened halogen-free TPE-E/PUR crane festoon and drag-chain cable



0.6/1 kV

(N)12YRDC11Y-J/O

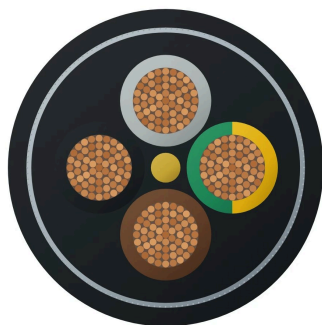
EMC Screened PUR · AD8

Application

EMC-screened 0.6/1 kV halogen-free PUR drag-chain and crane festoon cable ((N)12YRDC11Y-J/O) with Class 5 copper conductors, 12Y TPE-E insulation, central aramid carrier, ≥80% tinned copper braid and 11Y PUR sheath rated to 50 m water depth (AD8).

Typical uses: Container & port gantry VFD drives, Automated warehouse & stacker chains, Machine tool & transfer line drag chains, Cold-storage & arctic crane systems, Submerged scraper & treatment bridges, Mining & bulk material handling

Construction



Cross-section, not to scale

- 1 Conductor
- 2 Central support element
- 3 Core insulation
- 4 Separating tape
- 5 EMC copper braid screen
- 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)
EMC screen	Tinned copper wire braid (≥ 80 % coverage) over synthetic-tape-wrapped core assembly	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 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 60332-1-2 · EN 60811-404
Standard packing	500 m / 1,000 m on wooden drums or cut-to-length chain sets		

Sizes

25 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)12YRDC11Y-O 1×25	(N)12YRDC11Y-O 1×25	1 × 25	4	11.5	13.0	275	330	98	375
☐ (N)12YRDC11Y-O 1×35	(N)12YRDC11Y-O 1×35	1 × 35	2	12.8	14.3	380	420	108	525
☐ (N)12YRDC11Y-O 1×50	(N)12YRDC11Y-O 1×50	1 × 50	1	14.9	16.4	535	590	123	750
☐ (N)12YRDC11Y-O 1×70	(N)12YRDC11Y-O 1×70	1 × 70	2/0	16.7	18.2	740	795	137	1,050
☐ (N)12YRDC11Y-O 1×95	(N)12YRDC11Y-O 1×95	1 × 95	3/0	18.9	20.4	990	1,050	153	1,425
☐ (N)12YRDC11Y-O 1×120	(N)12YRDC11Y-O 1×120	1 × 120	4/0	20.4	22.4	1,240	1,295	168	1,800
☐ (N)12YRDC11Y-O 1×150	(N)12YRDC11Y-O 1×150	1 × 150	300 kcmil	23.1	25.1	1,550	1,610	189	2,250
☐ (N)12YRDC11Y-O 1×185	(N)12YRDC11Y-O 1×185	1 × 185	350 kcmil	25.8	27.8	1,900	1,920	209	2,775
4-core 1.5–50 mm ² 9 sizes									
☐ (N)12YRDC11Y-J 4G1.5	(N)12YRDC11Y-O 4×1.5	4 × 1.5	16	10.8	12.0	114	240	90	90
☐ (N)12YRDC11Y-J 4G2.5	(N)12YRDC11Y-O 4×2.5	4 × 2.5	14	13.0	14.5	145	250	109	150
☐ (N)12YRDC11Y-J 4G4	(N)12YRDC11Y-O 4×4	4 × 4	12	14.8	16.3	215	350	123	240
☐ (N)12YRDC11Y-J 4G6	(N)12YRDC11Y-O 4×6	4 × 6	10	16.6	18.1	305	450	136	360
☐ (N)12YRDC11Y-J 4G10	(N)12YRDC11Y-O 4×10	4 × 10	8	19.3	20.8	465	680	156	600
☐ (N)12YRDC11Y-J 4G16	(N)12YRDC11Y-O 4×16	4 × 16	6	22.4	24.4	720	985	183	960
☐ (N)12YRDC11Y-J 4G25	(N)12YRDC11Y-O 4×25	4 × 25	4	26.9	28.9	1,110	1,460	217	1,500
☐ (N)12YRDC11Y-J 4G35	(N)12YRDC11Y-O 4×35	4 × 35	2	30.4	32.4	1,520	1,940	243	2,100
☐ (N)12YRDC11Y-J 4G50	(N)12YRDC11Y-O 4×50	4 × 50	1	35.2	37.2	2,140	2,665	279	3,000
5-core 1.5–2.5 mm ² 2 sizes									
☐ (N)12YRDC11Y-J 5G1.5	(N)12YRDC11Y-O 5×1.5	5 × 1.5	16	12.4	13.9	125	220	105	112
☐ (N)12YRDC11Y-J 5G2.5	(N)12YRDC11Y-O 5×2.5	5 × 2.5	14	13.9	15.4	178	295	116	188
Control 7–24 cores 6 sizes									
☐ (N)12YRDC11Y-J 7G1.5	(N)12YRDC11Y-O 7×1.5	7 × 1.5	16	11.5	13.0	145	205	98	158
☐ (N)12YRDC11Y-J 12G1.5	(N)12YRDC11Y-O 12×1.5	12 × 1.5	16	15.5	17.0	260	380	128	270
☐ (N)12YRDC11Y-J 12G2.5	(N)12YRDC11Y-O 12×2.5	12 × 2.5	14	18.6	20.1	395	580	151	450
☐ (N)12YRDC11Y-J 18G1.5	(N)12YRDC11Y-O 18×1.5	18 × 1.5	16	16.1	17.6	350	440	132	405
☐ (N)12YRDC11Y-J 18G2.5	(N)12YRDC11Y-O 18×2.5	18 × 2.5	14	19.2	20.7	545	670	156	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)12YRDC11Y-J 24G2.5	(N)12YRDC11Y-O 24×2.5	24 × 2.5	14	25.0	27.6	721	1,130	207	900

– Copper weight (kg/km) includes both the Class 5 phase/control conductors and the overall tinned copper braid screen.

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-12yrdc11y-j-o-screened-pur-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.