

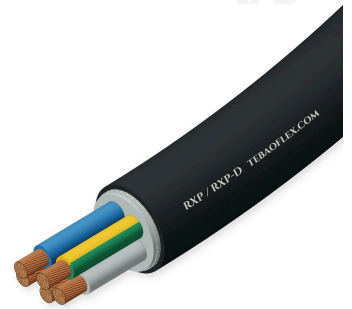


Low-voltage polyurethane (PUR) reeling cables

RXP / RXP-D 12YHRDT11YH

RXP / RXP-D Heavy-Duty PUR Reeling Cable (0.6/1 kV)

Heavy-duty -40 °C halogen-free double-PUR reeling cable up to 180 m/min and 25 N/mm²



0.6/1 kV

12YHRDT11YH

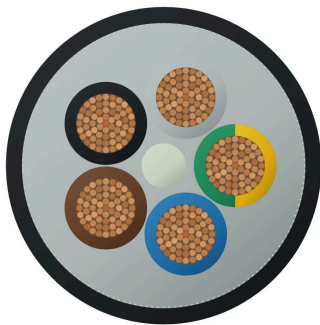
180 m/min · -40 °C

Application

Heavy-duty 0.6/1 kV halogen-free PUR reeling cable (12YHRDT11YH / 12HRDTC11YH) with Class 5 copper cores, 12YH insulation, central textile strain relief, and black double-PUR sandwich sheath with anti-torsion braid across 50 power, control, and data sizes.

Typical uses: Transfer Cars & Automated Parking, Bulk Material Handling, Industrial Hoists & Cranes, Cold-Store & Outdoor Port Machinery

Construction



Cross-section, not to scale

- 1 Flexible bare copper conductor / optical fibres
- 2 Halogen-free core insulation (12YH)
- 3 Screened data, CAN-Bus or FO elements (RXP-D)
- 4 Central textile strain-relief core
- 5 Inner sheath (11YH)
- 6 Embedded anti-torsion braid (RDT)
- 7 Outer sheath (11YH)

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV (RXP-D 12 G 62.5/125 µm is dielectric optical fibre)	Max. operating voltage AC	0.7/1.2 kV
Max. operating voltage DC	0.9/1.8 kV	AC test voltage	3.5 kV AC
Current rating (DIN VDE 0298-4)	Per DIN VDE 0298-4 at 30 °C ambient (reel layer factors: 0.80 for 1 layer, 0.61 for 2 layers, 0.49 for 3 layers)	Temperature, flexing	-40 °C to +80 °C (consult below -30 °C)
Temperature, fixed installation	-50 °C to +80 °C (technical table lists up to +90 °C)	Max. conductor temperature	+90 °C
Short-circuit temperature	+200 °C	Max. travel speed	Up to 180 m/min horizontal reeling
Max. tensile load (dynamic)	25 N/mm ² (150–3,500 N across 50 sizes with central textile strain relief)	Min. bending radius, moving	6 × D (reeling) · 7.5 × D (fixed diversion rollers / assemblies)
S-bend distance	≥ 20 × D minimum distance between two changes of bending direction	Halogen-free & silicone-free	Halogen-free polyester (12YH) insulation and double PUR (11YH) sheaths; LBS-free / silicone-free
Oil, water, UV & chemical resistance	Oil, ozone, UV and humidity resistant; temporary water use up to 50 m depth; not resistant to urea	Flame retardance	Low flammability per IEC 60332-1-2
Standards	Design codes 12YHRDT11YH / 12HRDTC11YH (halogen-free polyester core insulation, double PUR sheath, anti-torsion braid)		

Sizes

50 standard constructions

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

Designation	Configuration	Outer Ø min	Outer Ø max	Cu number	Weight ≈	Permitted pull	Reel R min 6×D
RXP Control (1.5 – 2.5 mm ²) 15 sizes							
☐ RXP 4 G 1.5	4 G 1.5	10	11.2	61	155	150	67
☐ RXP 5 G 1.5	5 G 1.5	10.6	11.8	81	178	188	71
☐ RXP 7 G 1.5	7 G 1.5	12.1	13.5	115	218	263	81
☐ RXP 12 G 1.5	12 G 1.5	15.4	17	196	363	450	102
☐ RXP 18 G 1.5	18 G 1.5	16.3	18.1	271	459	675	109
☐ RXP 24 G 1.5	24 G 1.5	18.7	20.9	392	590	900	125
☐ RXP 30 G 1.5	30 G 1.5	21.6	24	450	720	1,125	144
☐ RXP 42 G 1.5 (yellow sheath)	42 G 1.5	28.5	30.5	624	1,192	2,200	183
☐ RXP 4 G 2.5	4 G 2.5	11.1	12.3	99	208	250	74
☐ RXP 5 G 2.5	5 G 2.5	11.8	13	125	230	313	78
☐ RXP 7 G 2.5	7 G 2.5	13.3	14.7	180	315	438	88
☐ RXP 12 G 2.5	12 G 2.5	18.5	20.5	308	485	750	123
☐ RXP 18 G 2.5	18 G 2.5	18.5	20.5	451	679	1,125	123
☐ RXP 24 G 2.5	24 G 2.5	21.2	23.6	616	860	1,500	142
☐ RXP 30 G 2.5	30 G 2.5	25.4	28.2	771	1,080	1,875	169
RXP Power (4 – 35 mm ²) 14 sizes							
☐ RXP 4 G 4	4 G 4	12.2	13.6	160	281	400	82
☐ RXP 4 G 6	4 G 6	13.3	14.9	241	372	600	89
☐ RXP 4 G 10	4 G 10	17.1	18.9	404	615	1,000	113
☐ RXP 4 G 16	4 G 16	19.9	22.1	645	924	1,600	133
☐ RXP 4 G 25	4 G 25	22.9	25.5	1,005	1,270	2,500	153

Designation	Configuration	Outer Ø min	Outer Ø max	Cu number	Weight ≈	Permitted pull	Reel R min 6×D
☐ RXP 4 G 35	4 G 35	27.2	30	1,417	1,778	3,500	180
☐ RXP 5 G 4	5 G 4	13.1	14.5	200	318	500	87
☐ RXP 5 G 6	5 G 6	14.5	16.1	317	435	750	97
☐ RXP 5 G 10	5 G 10	18.5	20.5	528	704	1,250	123
☐ RXP 5 G 16	5 G 16	21.8	24.2	816	1,067	2,000	145
☐ RXP 5 G 25	5 G 25	27.5	30.5	1,428	1,590	3,125	183
☐ RXP 14 G 4	14 G 4	22.7	25.3	616	819	1,400	152
☐ RXP 20 G 4	20 G 4	24.3	25.9	768	1,100	1,600	155
☐ RXP 7 G 6 (yellow sheath)	7 G 6	20	21.4	429	715	1,050	128
RXP-D Data & Control+Data/CAN 6 sizes							
☐ RXP-D 4 × (2 × 1) C	4 × (2 × 1) C	14.4	15	111	253	200	90
☐ RXP-D 6 × (2 × 1) C	6 × (2 × 1) C	21	23	265	597	300	138
☐ RXP-D 4 × 2 × AWG22	4 × 2 × AWG22	12.6	13.6	58.6	164	300	82
☐ RXP-D 12 G 62.5/125 µm	12 G 62.5/125 µm	13	15	0	170	200	90
☐ RXP-D 19 G 2.5 + 5 × 1.5 C	19 G 2.5 + 5 × 1.5 C	21.2	23.8	563	850	1,188	143
☐ RXP-D 12 × 4 G 2.5 + 2 × 2 × 0.25 CAN	12 × 4 G 2.5 + 2 × 2 × 0.25 CAN	39	41	1,420	2,298	3,000	246
RXP-D Power + Data / 12 FO 15 sizes							
☐ RXP-D 4 G 6 + 4 × (2 × 1.5) C	4 G 6 + 4 × (2 × 1.5) C	22.3	24.3	525	851	600	146
☐ RXP-D 4 G 16 + 2 × (4 × 1.5) C	4 G 16 + 2 × (4 × 1.5) C	24	25.6	840	1,184	1,600	154
☐ RXP-D 4 G 35 + 2 × (4 × 1.5) C	4 G 35 + 2 × (4 × 1.5) C	33.5	36.5	1,635	2,380	3,500	219
☐ RXP-D 13 G 4 + 2 × (2 × 1) C	13 G 4 + 2 × (2 × 1) C	24.3	26.9	575	943	1,500	161
☐ RXP-D 17 G 4 + 2 × (2 × 1) C	17 G 4 + 2 × (2 × 1) C	26.7	29.5	701	1,127	1,500	177
☐ RXP-D 25 G 4 + 2 × (2 × 1) C	25 G 4 + 2 × (2 × 1) C	32.6	36.2	1,020	1,637	2,250	217
☐ RXP-D 5 G 6 + 2 × (2 × 1) C	5 G 6 + 2 × (2 × 1) C	19.3	21.3	345	670	750	128
☐ RXP-D 13 G 6 + 2 × (2 × 1) C	13 G 6 + 2 × (2 × 1) C	28.4	31.4	838	1,266	1,500	188
☐ RXP-D 17 G 6 + 2 × (2 × 1) C	17 G 6 + 2 × (2 × 1) C	30.3	33.5	1,070	1,556	2,250	201
☐ RXP-D 25 G 6 + 2 × (2 × 1) C	25 G 6 + 2 × (2 × 1) C	38.1	42.2	1,500	2,270	2,500	253
☐ RXP-D 5 G 16 + 4 × (2 × 0.75) C	5 G 16 + 4 × (2 × 0.75) C	29	30.5	889	1,468	1,600	183
☐ RXP-D 5 G 6 + 12 FO	5 G 6 + 12 FO	19	21	288	500	600	126
☐ RXP-D 5 G 16 + 12 FO	5 G 16 + 12 FO	25	28	768	1,100	1,600	168
☐ RXP-D 5 G 25 + 12 FO	5 G 25 + 12 FO	30	33	1,200	1,600	2,500	198
☐ RXP-D 5 G 35 + 12 FO	5 G 35 + 12 FO	33	36	1,680	2,100	3,500	216

- All 50 configurations verified against the reference reeling cable catalog.
- Row 12 G 62.5/125 µm is an all-dielectric optical cable (Cu weight = 0 kg/km, cable weight = 170 kg/km, permitted pull = 200 N), correcting the left-shifted columns in the legacy PDF.
- Row 4 × 2 × AWG22 Cu weight corrected from 586 to 58.6 kg/km (total cable weight is 164 kg/km); 42 G 1.5 and 7 G 6 are supplied with a yellow outer sheath.

Electrical reference data

50 sizes

Designation	Rated U0/U	Max. DC R 20 °C	Ref. Ampacity 30 °C	AC Test Voltage
RXP Control (1.5 – 2.5 mm²) 15 sizes				
RXP 4 G 1.5	0.6/1 kV	19.5	18	3.5 kV AC
RXP 5 G 1.5	0.6/1 kV	19.5	18	3.5 kV AC
RXP 7 G 1.5	0.6/1 kV	19.5	18	3.5 kV AC
RXP 12 G 1.5	0.6/1 kV	19.5	18	3.5 kV AC
RXP 18 G 1.5	0.6/1 kV	19.5	18	3.5 kV AC
RXP 24 G 1.5	0.6/1 kV	19.5	18	3.5 kV AC
RXP 30 G 1.5	0.6/1 kV	19.5	18	3.5 kV AC

Designation	Rated U0/U	Max. DC R 20 °C	Ref. Ampacity 30 °C	AC Test Voltage
RXP 42 G 1.5 (yellow sheath)	0.6/1 kV	19.5	18	3.5 kV AC
RXP 4 G 2.5	0.6/1 kV	7.98	26	3.5 kV AC
RXP 5 G 2.5	0.6/1 kV	7.98	26	3.5 kV AC
RXP 7 G 2.5	0.6/1 kV	7.98	26	3.5 kV AC
RXP 12 G 2.5	0.6/1 kV	7.98	26	3.5 kV AC
RXP 18 G 2.5	0.6/1 kV	7.98	26	3.5 kV AC
RXP 24 G 2.5	0.6/1 kV	7.98	26	3.5 kV AC
RXP 30 G 2.5	0.6/1 kV	7.98	26	3.5 kV AC
RXP Power (4 – 35 mm²) 14 sizes				
RXP 4 G 4	0.6/1 kV	4.95	34	3.5 kV AC
RXP 4 G 6	0.6/1 kV	3.30	44	3.5 kV AC
RXP 4 G 10	0.6/1 kV	1.91	61	3.5 kV AC
RXP 4 G 16	0.6/1 kV	1.21	82	3.5 kV AC
RXP 4 G 25	0.6/1 kV	0.780	108	3.5 kV AC
RXP 4 G 35	0.6/1 kV	0.554	135	3.5 kV AC
RXP 5 G 4	0.6/1 kV	4.95	34	3.5 kV AC
RXP 5 G 6	0.6/1 kV	3.30	44	3.5 kV AC
RXP 5 G 10	0.6/1 kV	1.91	61	3.5 kV AC
RXP 5 G 16	0.6/1 kV	1.21	82	3.5 kV AC
RXP 5 G 25	0.6/1 kV	0.780	108	3.5 kV AC
RXP 14 G 4	0.6/1 kV	4.95	34	3.5 kV AC
RXP 20 G 4	0.6/1 kV	4.95	34	3.5 kV AC
RXP 7 G 6 (yellow sheath)	0.6/1 kV	3.30	44	3.5 kV AC
RXP-D Data & Control+Data/CAN 6 sizes				
RXP-D 4 × (2 × 1) C	0.6/1 kV	19.5	15	3.5 kV AC
RXP-D 6 × (2 × 1) C	0.6/1 kV	19.5	15	3.5 kV AC
RXP-D 4 × 2 × AWG22	0.6/1 kV	55.0	—	3.5 kV AC
RXP-D 12 G 62.5/125 µm	Dielectric FO	—	—	—
RXP-D 19 G 2.5 + 5 × 1.5 C	0.6/1 kV	7.98 / 19.5	26 / 18	3.5 kV AC
RXP-D 12 × 4 G 2.5 + 2 × 2 × 0.25 CAN	0.6/1 kV	7.98 / 79.0	26 / —	3.5 kV AC
RXP-D Power + Data / 12 FO 15 sizes				
RXP-D 4 G 6 + 4 × (2 × 1.5) C	0.6/1 kV	3.30 / 19.5	44 / 18	3.5 kV AC
RXP-D 4 G 16 + 2 × (4 × 1.5) C	0.6/1 kV	1.21 / 19.5	82 / 18	3.5 kV AC
RXP-D 4 G 35 + 2 × (4 × 1.5) C	0.6/1 kV	0.554 / 19.5	135 / 18	3.5 kV AC
RXP-D 13 G 4 + 2 × (2 × 1) C	0.6/1 kV	4.95 / 19.5	34 / 15	3.5 kV AC
RXP-D 17 G 4 + 2 × (2 × 1) C	0.6/1 kV	4.95 / 19.5	34 / 15	3.5 kV AC
RXP-D 25 G 4 + 2 × (2 × 1) C	0.6/1 kV	4.95 / 19.5	34 / 15	3.5 kV AC
RXP-D 5 G 6 + 2 × (2 × 1) C	0.6/1 kV	3.30 / 19.5	44 / 15	3.5 kV AC
RXP-D 13 G 6 + 2 × (2 × 1) C	0.6/1 kV	3.30 / 19.5	44 / 15	3.5 kV AC
RXP-D 17 G 6 + 2 × (2 × 1) C	0.6/1 kV	3.30 / 19.5	44 / 15	3.5 kV AC
RXP-D 25 G 6 + 2 × (2 × 1) C	0.6/1 kV	3.30 / 19.5	44 / 15	3.5 kV AC
RXP-D 5 G 16 + 4 × (2 × 0.75) C	0.6/1 kV	1.21 / 26.0	82 / 12	3.5 kV AC
RXP-D 5 G 6 + 12 FO	0.6/1 kV	3.30	44	3.5 kV AC
RXP-D 5 G 16 + 12 FO	0.6/1 kV	1.21	82	3.5 kV AC
RXP-D 5 G 25 + 12 FO	0.6/1 kV	0.780	108	3.5 kV AC
RXP-D 5 G 35 + 12 FO	0.6/1 kV	0.554	135	3.5 kV AC

- Maximum DC conductor resistance at 20 °C per IEC 60228 Table 3 for Class 5 bare copper conductors.
- Free-air reference ampacity at 30 °C ambient per DIN VDE 0298-4; multiply by reel layer factor (0.80 for 1 layer, 0.61 for 2 layers, 0.49 for 3 layers).

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.

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+86 185 9591 3361

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info@tebaoflex.com

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