



Control & signal cables

JZ-600 PUR

0.6/1 kV PVC/PUR Control and Connection Cable

0.6/1 kV heavy-duty PVC-insulated TMPU polyurethane control & connection cable



0.6/1 kV (600/1000 V)

TMPU Polyurethane Sheath (11Y)

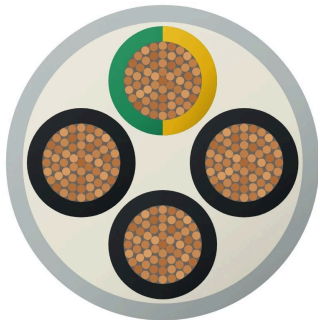
Indoor & Outdoor Heavy Duty

Application

Heavy-duty 0.6/1 kV (600/1000 V) flexible control and power connection cable ('JZ-600 PUR') with Class 5 bare copper conductors (0.75–35 mm²), thick-wall TI2 numbered PVC cores and a cut-, oil-, UV- and microbe-resistant TMPU polyurethane ('11Y') outer sheath.

Typical uses: Steelworks, rolling mills & foundries, Mining, quarrying & concrete batching plants, Machine tool 400/690 V power & control, Outdoor conveyors, cranes & material handling, Chemical, recycling & heavy washdown lines

Construction



Cross-section, not to scale

1	Class 5 flexible copper conductor	IEC 60228 Class 5
2	0.6/1 kV TI2 PVC core insulation	DIN VDE 0250 / 0285 · EN 50334
3	Short-lay core stranding + fleece	DIN VDE 0285
4	Heavy-duty TMPU outer sheath (11Y)	EN 50363-10-2 TMPU · EN 60811-404

Technical data

Typical values

Rated voltage U ₀ /U	0.6/1 kV (600/1000 V AC)	AC test voltage (50 Hz)	4000 V AC
Insulation resistance (20 °C)	≥ 20 MΩ·km	Temperature, flexing	–15 °C to +80 °C
Temperature, fixed	–40 °C to +80 °C	Max. conductor temperature	+80 °C continuous · +160 °C short-circuit
Min. bending radius, fixed	4 × overall diameter	Min. bending radius, flexing	10–12.5 × overall diameter
Cut, tear & impact strength	Reinforced 0.6/1 kV core wall + TMPU jacket resists sharp rock, metal chips and vehicular roll-over	Oil & coolant resistance	EN 60811-404 mineral oils, synthetic lubricants, hydraulic fluids and emulsions
UV, weather & hydrolysis	UV-stabilised and hydrolysis/microbe-resistant for permanent outdoor installation	Standards	DIN VDE 0250 / DIN VDE 0285 & DIN VDE 0207-20 (11YM1)
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

32 standard constructions

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

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
0.75 mm ² JZ-600 PUR 0.6/1 kV Control Configurations 5 sizes							
☐ JZ-600 PUR 3G0.75	3×0.75	18	6.6	7.2	21	74	29
☐ JZ-600 PUR 4G0.75	4×0.75	18	7.3	7.9	28	92	32
☐ JZ-600 PUR 5G0.75	5×0.75	18	7.9	8.6	36	112	34
☐ JZ-600 PUR 7G0.75	7×0.75	18	8.9	9.7	50	148	39
☐ JZ-600 PUR 12G0.75	12×0.75	18	11.6	12.6	86	242	50
1.00 mm ² JZ-600 PUR 0.6/1 kV Control Configurations 7 sizes							
☐ JZ-600 PUR 3G1.0	3×1.0	17	6.9	7.5	28	86	30
☐ JZ-600 PUR 4G1.0	4×1.0	17	7.5	8.2	38	106	33
☐ JZ-600 PUR 5G1.0	5×1.0	17	8.3	9.0	48	130	36
☐ JZ-600 PUR 7G1.0	7×1.0	17	9.4	10.2	67	174	41
☐ JZ-600 PUR 12G1.0	12×1.0	17	12.2	13.3	115	288	53
☐ JZ-600 PUR 18G1.0	18×1.0	17	14.4	15.6	172	412	62
☐ JZ-600 PUR 25G1.0	25×1.0	17	17.1	18.6	240	568	74
1.50 mm ² JZ-600 PUR 0.6/1 kV Control Configurations 7 sizes							
☐ JZ-600 PUR 3G1.5	3×1.5	16	7.6	8.3	43	108	33
☐ JZ-600 PUR 4G1.5	4×1.5	16	8.4	9.1	57	136	36
☐ JZ-600 PUR 5G1.5	5×1.5	16	9.2	10.0	72	168	40
☐ JZ-600 PUR 7G1.5	7×1.5	16	10.5	11.4	100	226	46
☐ JZ-600 PUR 12G1.5	12×1.5	16	13.7	14.9	172	376	60
☐ JZ-600 PUR 18G1.5	18×1.5	16	16.2	17.6	259	542	70
☐ JZ-600 PUR 25G1.5	25×1.5	16	19.3	21.0	360	748	84
2.50 mm ² JZ-600 PUR 0.6/1 kV Control & Motor Feeders 5 sizes							
☐ JZ-600 PUR 3G2.5	3×2.5	14	8.9	9.7	72	158	39
☐ JZ-600 PUR 4G2.5	4×2.5	14	9.8	10.7	96	202	43
☐ JZ-600 PUR 5G2.5	5×2.5	14	10.9	11.8	120	248	47
☐ JZ-600 PUR 7G2.5	7×2.5	14	12.4	13.5	168	336	54

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
☐ JZ-600 PUR 12G2.5	12×2.5	14	16.2	17.6	288	558	70
4.0–35 mm ² JZ-600 PUR 0.6/1 kV Power Connection Cables 8 sizes							
☐ JZ-600 PUR 4G4	4×4	12	11.4	12.4	153	288	50
☐ JZ-600 PUR 5G4	5×4	12	12.6	13.7	192	355	55
☐ JZ-600 PUR 4G6	4×6	10	13.1	14.2	230	405	57
☐ JZ-600 PUR 5G6	5×6	10	14.5	15.8	288	498	63
☐ JZ-600 PUR 4G10	4×10	8	16.4	17.8	384	645	71
☐ JZ-600 PUR 4G16	4×16	6	19.5	21.2	614	965	85
☐ JZ-600 PUR 4G25	4×25	4	23.7	25.8	960	1,460	103
☐ JZ-600 PUR 4G35	4×35	2	27.0	29.4	1,344	1,980	118

– Dimensions and weights are typical values per DIN VDE 0250 / VDE 0285 · 0.6/1 kV TMPU. Minimum fixed bending radius shown is 4 × OD.

Electrical & current ratings

10 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	Single pair/core 30 °C, A	Multi-core bundle 30 °C, A
0.75	18	26	12.0	10.0
1	17	19.5	15.0	13.0
1.5	16	13.3	23.0	18.0
2.5	14	7.98	30.0	25.0
4	12	4.95	41.0	34.0
6	10	3.3	53.0	44.0
10	8	1.91	74.0	61.0
16	6	1.21	99.0	82.0
25	4	0.78	131.0	108.0
35	2	0.554	162.0	135.0

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / DIN VDE 0891-1. Apply grouping derating factors for multi-core control and signal bundles.

Standards and approvals

✓ DIN VDE 0250 / VDE 0285 · 0.6/1 kV TMPU

✓ CE · RoHS 2 (2011/65/EU) · REACH

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/0-6-1-kv-pvc-pur-control-and-connection-cable



Typical values for this cable type, based on DIN VDE 0250 / VDE 0285 · 0.6/1 kV TMPU. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.