Screened power & VFD / motor supply cables

BPYJVP 0.6/1 kV

Symmetrical Shielded VFD Cable

90 °C XLPE 3+3 symmetrical VFD motor cable with copper braid EMC screen

TICW/06 · GB/T 12706.1 | U0/U 0.6/1 kV | 90 °C XLPE · 3+3 Cu Braid

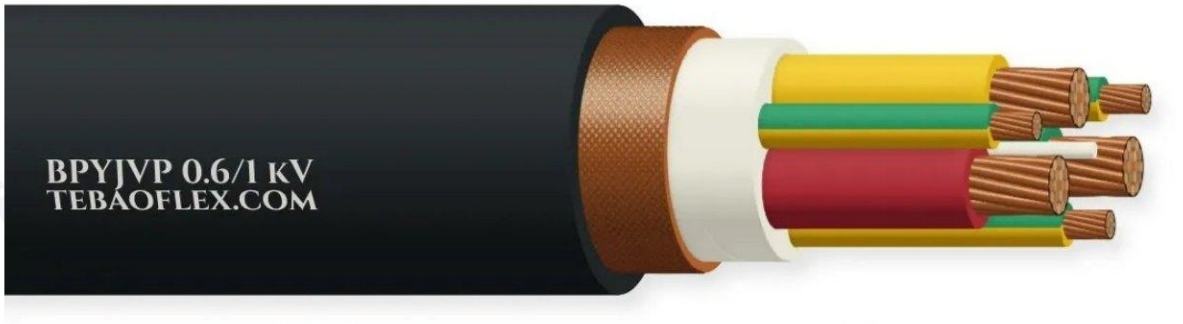


Application

Symmetrical 3+3 low-voltage VFD motor supply cable rated 0.6/1 kV with Class 5 bare copper conductors, 90 °C XLPE insulation, overall bare copper wire braid EMC screen (≥ 85%), and black flame-retardant ST2 PVC sheath.

Typical uses: Industrial VFD motor drives, Metallurgy & rolling mills, Pumps, fans & compressors, Chemical & process plants, Automated manufacturing lines

Construction





Cross-section, not to scale

1	**Conductor**	Class 5 flexible bare annealed copper · GB/T 3956 / IEC 60228 Class 5
2	**Phase & earth insulation**	90 °C cross-linked polyethylene (XLPE), GB/T 6995 colours
3	**Fillers & binder tape**	Non-hygroscopic polypropylene (PP) fillers & polyester binder tape · Symmetrical 3+3 round cabled core
4	**EMC braid screen**	Overall bare annealed copper wire braid (P, ≥ 85% coverage) · TICW/06-2009 high-frequency EMC containment
5	**Outer sheath**	Black flame-retardant PVC compound (ST2) · GB/T 12706.1 / IEC 60502-1 ST2

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV	AC test voltage	3.5 kV / 5 min
EMC screen coverage	≥ 85% bare annealed copper braid	Core symmetry	3+3 symmetrical split-earth geometry
Conductor DC resistance	Per IEC 60228 / GB/T 3956 Class 5	Current rating basis	Per GB/T 12706.1 / IEC 60502-1 (+90 °C)
Max. conductor temperature	+90 °C continuous	Short-circuit temperature	+250 °C (max. 5 s)
Operating temperature, fixed	−15 °C to +70 °C ambient	Min. installation temperature	0 °C (preheat below 0 °C)
Min. bending radius, installation	15 × OD	Min. bending radius, fixed	12 × OD (clamped)
Max. pulling tension	50 N/mm² on copper conductors	Cable profile	Circular symmetrical 3+3 construction
Flame retardance	IEC 60332-1-2 / GB/T 18380.12	Oil & chemical resistance	Resistant to industrial lubricants & dust
UV & weather	Black UV-stabilised ST2 PVC jacket	Moisture protection	Non-hygroscopic PP interstitial fillers
Standards	TICW/06-2009 · GB/T 12706.1		

Sizes

14 standard constructions

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

Order designation	Cores × mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Copper kg/km	Weight ≈ kg/km	Min. bend R 15×D mm
☐ BPYJVP 3×2.5 + 3×0.5	3×2.5 + 3×0.5	13.5	7.980	122	290	203
☐ BPYJVP 3×4 + 3×0.75	3×4 + 3×0.75	15.0	4.950	184	375	225
☐ BPYJVP 3×6 + 3×1	3×6 + 3×1	16.8	3.300	258	490	252
☐ BPYJVP 3×10 + 3×1.5	3×10 + 3×1.5	19.8	1.910	410	760	297
☐ BPYJVP 3×16 + 3×2.5	3×16 + 3×2.5	23.0	1.210	628	1,100	345
☐ BPYJVP 3×25 + 3×4	3×25 + 3×4	27.8	0.780	960	1,665	417
☐ BPYJVP 3×35 + 3×6	3×35 + 3×6	31.0	0.554	1,320	2,200	465
☐ BPYJVP 3×50 + 3×10	3×50 + 3×10	35.8	0.386	1,880	3,050	537
☐ BPYJVP 3×70 + 3×10	3×70 + 3×10	40.5	0.272	2,480	4,050	608
☐ BPYJVP 3×95 + 3×16	3×95 + 3×16	46.0	0.206	3,370	5,425	690
☐ BPYJVP 3×120 + 3×25	3×120 + 3×25	51.0	0.161	4,330	6,700	765
☐ BPYJVP 3×150 + 3×25	3×150 + 3×25	56.5	0.129	5,210	8,150	848
☐ BPYJVP 3×185 + 3×35	3×185 + 3×35	62.5	0.106	6,470	10,150	938
☐ BPYJVP 3×240 + 3×50	3×240 + 3×50	71.0	0.080	8,430	13,250	1,065

– Conductor max. DC resistance R20 follows IEC 60228 / GB/T 3956 Class 5 bare annealed copper at 20 °C.

– Copper index includes 3 phase cores, 3 symmetrical split earth cores, and the overall bare copper wire braid screen (≥ 85% coverage).

Standards and approvals

- TICW/06-2009 Symmetrical VFD Cable Specification
- GB/T 12706.1 / IEC 60502-1 (0.6/1 kV)
- IEC 60332-1-2 / GB/T 18380.12 Flame Retardant

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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Email
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Web
tebaoflex.com/cables/bpyjvp-0-6-1kv-symmetrical-shielded-vfd-cable

Typical values for this cable type, based on TICW/06-2009 · GB/T 12706.1 · IEC 60502-1 · IEC 60228. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.