Screened power & VFD / motor supply cables

BPYJVP2 0.6/1 kV

Copper Tape Shielded VFD Cable

90 °C XLPE 3+3 symmetrical VFD cable with copper tape screen

TICW/06 · GB/T 12706.1 | U0/U 0.6/1 kV | 90 °C XLPE · Cu Tape P2

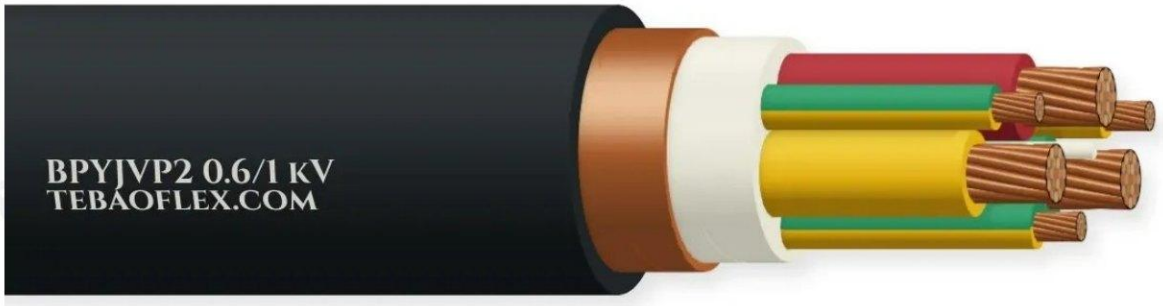


Application

Symmetrical 3+3 fixed-installation VFD power cable rated 0.6/1 kV with Class 2 bare copper conductors, 90 °C XLPE insulation, 100% overlapping bare annealed copper tape screen (P2), and black flame-retardant PVC sheath.

Typical uses: Heavy industrial VFD feeders, Metallurgy & steel plants, Pump & compressor stations, Chemical processing lines, HVAC & plant power distribution

Construction





Cross-section, not to scale

1	Conductor	Class 2 stranded bare annealed copper · GB/T 3956 / IEC 60228 Class 2
2	Phase & earth insulation	90 °C cross-linked polyethylene (XLPE), GB/T 6995 colours
3	Fillers & binder tape	Non-hygroscopic polypropylene fillers & FR binder tape · Symmetrical 3+3 round cabled core
4	EMC copper tape screen	Overlapping bare annealed copper tape (P2, 100% coverage) · TICW/06-2009 continuous EMC & ground-fault path
5	Outer sheath	Black flame-retardant PVC compound (ZR-PVC / 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
Conductor class	IEC 60228 Class 2 bare Cu	**EMC screen**	100% overlapping bare Cu tape (P2)
Insulation resistance	≥ 1,000 MΩ·km at 20 °C	**Max. conductor temp.**	+90 °C continuous
Short-circuit temp.	+250 °C (max. 5 s)	**Ambient temp. (fixed)**	−15 °C to +70 °C
Min. installation temp.	0 °C	**Min. bending radius**	15 × OD (fixed)
Flame retardance	IEC 60332-1-2 / GB/T 18380.12	**Sheath compound**	Black FR-PVC (ZR-PVC / ST2)
Chemical & oil resistance	Good industrial oil resistance		

Sizes

13 standard constructions

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

Cores × mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Copper index kg/km	Weight ≈ kg/km	Min. bend R 15×D mm
☐ 3×4 + 3×0.75	14.0	4.610	160	320	210
☐ 3×6 + 3×1	15.3	3.080	224	423	230
☐ 3×10 + 3×1.5	17.3	1.830	351	622	260
☐ 3×16 + 3×2.5	19.6	1.150	547	920	294
☐ 3×25 + 3×4	23.9	0.727	843	1,405	358
☐ 3×35 + 3×6	26.4	0.524	1,176	1,899	396
☐ 3×50 + 3×10	30.1	0.387	1,703	2,687	452
☐ 3×70 + 3×16	35.1	0.268	2,424	3,789	526
☐ 3×95 + 3×16	39.0	0.193	3,115	4,832	585
☐ 3×120 + 3×25	42.8	0.153	4,051	6,195	642
☐ 3×150 + 3×25	48.5	0.124	4,882	7,553	728
☐ 3×185 + 3×35	53.1	0.099	6,121	9,391	796
☐ 3×240 + 3×50	58.8	0.075	8,044	12,191	882

- Conductor max. DC resistance R20 follows IEC 60228 / GB/T 3956 Class 2 bare annealed copper at 20 °C.
- Copper index includes 3 phase cores, 3 symmetrical split earths, and the overlapping annealed bare copper tape screen.

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.

WhatsApp / phone
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Email
info@tebaoflex.com

Web
tebaoflex.com/cables/bpyjvp2-0-6-1kv-copper-tape-shielded-vfd-cable

Typical values for this cable type, based on TICW/06-2009 · GB/T 12706.1 · IEC 60502-1 · IEC 60228 Cl.2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.