Screened power & VFD / motor supply cables

BPYJVPP2 0.6/1 kV

Double-Shielded VFD Cable

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

TICW/06 · GB/T 12706.1 | U0/U 0.6/1 kV | Cu Tape P2 + Cu Braid P



Application

Heavy-duty 0.6/1 kV symmetrical 3+3 VFD power cable combining Class 5 bare copper conductors, 90 °C XLPE insulation, dual bare copper tape (P2) plus copper wire braid (P) EMC shielding, and black FR-PVC outer sheath.

Typical uses: High-power VFD drive bays, Rolling mills & heavy metallurgy, Petrochemical & process plants, Power generation auxiliaries, Instrumentation-adjacent trays

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**	Polypropylene fillers & flame-retardant wrapping tape · Symmetrical 3+3 round core assembly
4	**Inner copper tape screen**	Overlapping bare annealed copper tape (P2, 100% coverage)
5	**Outer copper braid screen**	Bare annealed copper wire braid (P, ≥ 85% coverage)
6	**Outer sheath**	Black heavy-duty flame-retardant PVC (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 5 bare Cu	Dual EMC screen	100% Cu tape (P2) + ≥ 85% Cu braid (P)
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 heavy-duty FR-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	14.7	4.950	181	388	220
☐	3×6 + 3×1	16.0	3.300	247	503	240
☐	3×10 + 3×1.5	18.1	1.910	377	727	272
☐	3×16 + 3×2.5	20.6	1.210	577	1,062	309
☐	3×25 + 3×4	25.1	0.780	879	1,607	376
☐	3×35 + 3×6	27.7	0.554	1,216	2,154	416
☐	3×50 + 3×10	31.6	0.386	1,748	3,028	474
☐	3×70 + 3×16	36.9	0.272	2,476	4,254	554
☐	3×95 + 3×16	40.9	0.206	3,173	5,404	614
☐	3×120 + 3×25	44.9	0.161	4,115	6,908	674
☐	3×150 + 3×25	50.9	0.129	4,955	8,426	764
☐	3×185 + 3×35	55.8	0.106	6,200	10,458	837
☐	3×240 + 3×50	61.8	0.080	8,132	13,544	927

- Conductor max. DC resistance R20 follows IEC 60228 / GB/T 3956 Class 5 bare annealed copper at 20 °C.
- Copper index accounts for 3 phases, 3 split earths, inner overlapping copper tape, and outer ≥ 85% bare copper braid.

Standards and approvals

- TICW/06-2009 Double-Shielded VFD 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
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/bpyjvpp2-0-6-1kv-double-shielded-vfd-cable

Typical values for this cable type, based on TICW/06-2009 · GB/T 12706.1 · IEC 60502-1 · IEC 60228 Cl.5. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.