Screened power & VFD / motor supply cables

2XSL(St)CYK-J 0.6/1 kV

XLPE Outdoor VFD Cable

Black UV-resistant XLPE double-screened 4-core EMC VFD motor cable

DIN VDE 0250 | U0/U 0.6/1 kV · 4 kV AC | EMC Screened



Application

2XSL(St)CYK-J 0.6/1 kV combines Class 5 bare copper conductors, 90 °C XLPE insulation, dual aluminium-foil and tinned copper braid EMC screening, and a black UV-resistant PVC/PE outer sheath for indoor and outdoor drives.

Typical uses: Variable frequency drive (VFD) motor bays, Industrial pumps, fans & compressor skids, Process plants, oil & gas & HVAC systems, Heavy manufacturing & plant MCC feeders

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 5 flexible bare annealed copper · IEC 60228 Class 5
2	**Core insulation**	90 °C cross-linked polyethylene (XLPE 2X) · DIN VDE 0250
3	**Core assembly & separator**	Concentric cabled assembly with low-friction fleece or polyester binder tape · DIN VDE 0250
4	**EMC metallic screen**	Al-laminated plastic foil (St) + ≥ 85% tinned copper braid · EMC ≥ 85% / 100% foil
5	**Outer sheath**	Black UV- & weather-resistant PVC/PE outer sheath · IEC 60332-1-2 Flame

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV	AC test voltage	4 kV AC / 5 min
Conductor class	IEC 60228 Class 5 bare Cu	EMC screen	Al-laminated plastic foil (St) + ≥ 85%
Insulation resistance	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-40 °C to +90 °C
Temp. range (flexing)	-5 °C to +90 °C	Short-circuit temp.	+250 °C (5 s)
Min. bending radius	10 × OD (fixed)	Flame retardance	IEC 60332-1-2 Flame
Oil & chemical perf.	UV & Weather Resistant	Environmental / EMC	Low Transfer Impedance
Outer sheath	Black UV- & weather-resistant PVC/PE		

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 10×D mm
☐ 4G1.5	11.6	13.300	84	191	116
☐ 4G2.5	12.8	7.980	123	259	128
☐ 4G4	14.1	4.950	181	355	141
☐ 4G6	15.5	3.300	257	478	155
☐ 4G10	18.7	1.910	411	743	187
☐ 4G16	22.4	1.210	638	1,128	224
☐ 4G25	25.5	0.780	974	1,650	255
☐ 4G35	29.4	0.554	1,348	2,261	294
☐ 4G50	33.1	0.386	1,903	3,115	331
☐ 4G70	38.3	0.272	2,644	4,294	383
☐ 4G95	44.2	0.206	3,568	5,778	442
☐ 4G120	48.0	0.161	4,488	7,173	480
☐ 4G185	56.3	0.106	6,875	10,765	563

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (bare copper).
- Minimum bending radius calculated at 10 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- DIN VDE 0250
- IEC 60502-1
- IEC 60228 Class 5
- EN 10204 3.1 Factory Test Certificate
- 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/2xsl-st-cyk-j-0-6-1kv-xlpe-double-screened-vfd-cable

Typical values for this cable type, based on DIN VDE 0250 · IEC 60502-1 · IEC 60228 Class 5. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.