Screened power & VFD / motor supply cables

2YSL(St)CY-J 0.6/1 kV

Double-Screened VFD Cable

Low-capacitance PE 4-core EMC motor cable with transparent PVC



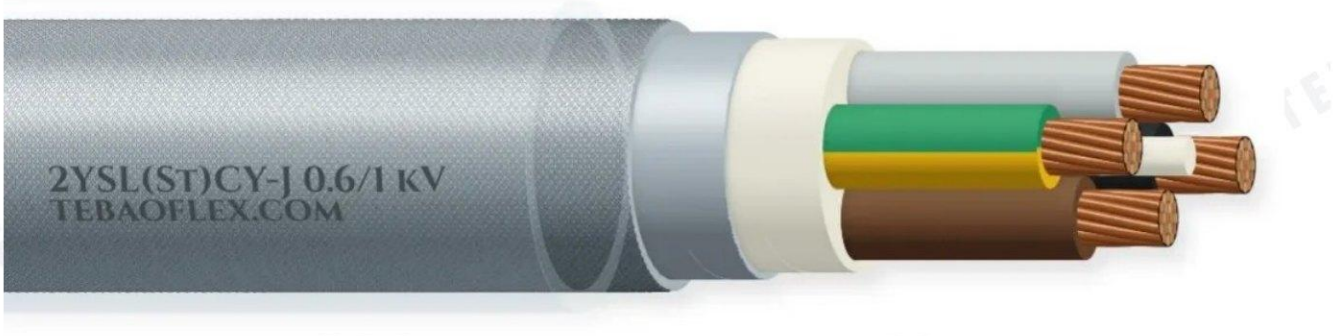
DIN VDE 0250 · EN 55011 | U0/U 0.6/1 kV · 4 kV Test | Low-Cap PE · Transparent PVC

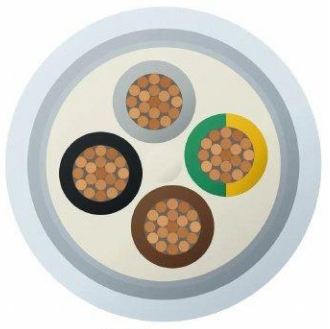
Application

European EMC-optimised 0.6/1 kV 4-core VFD motor supply cable built to DIN VDE 0250 with Class 5 bare copper, low-capacitance PE insulation (2Y), Al/PET static foil (St) plus tinned copper braid (C), and transparent FR-PVC sheath.

Typical uses: Industrial automation & OEM panels, Machine tools & conveyor drives, Packaging & textile lines, Indoor plant HVAC & pump drives, EN 55011 EMC-sensitive factories

Construction





Cross-section, not to scale

1	**Conductor**	Class 5 fine-wire bare annealed copper · DIN VDE 0295 / IEC 60228 Class 5
2	**Core insulation**	Low-capacitance polyethylene (2Y / PE), HD 308 S2 colours
3	**Core wrap**	Polyester separator foil over cabled 4-core bundle
4	**Static foil screen (St)**	Plastic-coated aluminium laminate static screen (100%) · DIN VDE 0250 high-frequency EMI shield
5	**Braid screen (C)**	Tinned copper wire braid (≥ 85% optical coverage) · EN 55011 low transfer impedance ≤ 250 mΩ/m
6	**Outer sheath**	Transparent flame-retardant special PVC · DIN VDE 0250 / IEC 60332-1-2

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV (max. 0.7/1.2 kV AC)	**AC test voltage**	4 kV (core/core & core/screen)
Conductor class	IEC 60228 / VDE 0295 Class 5	**Dual EMC screen**	100% Al/PET (St) + ≥ 85% TCWB (C)
Transfer impedance	≤ 250 mΩ/m at 30 MHz	**Max. conductor temp.**	+70 °C continuous (PE 2Y)
Ambient temp. (fixed)	−40 °C to +70 °C	**Ambient temp. (flexed)**	−5 °C to +70 °C
Min. bending radius	10 × OD fixed / 15 × OD flexed	**Flame retardance**	IEC 60332-1-2 / VDE 0482-332-1-2
Sheath compound	Transparent FR special PVC	**EMC compliance**	EN 55011 / EN 61800-3

Sizes

15 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	11.8	13.300	87	190	118
☐	4G2.5	13.0	7.980	127	257	130
☐	4G4	14.3	4.950	185	349	143
☐	4G6	15.7	3.300	262	469	157
☐	4G10	18.9	1.910	416	724	189
☐	4G16	22.4	1.210	644	1,090	224
☐	4G25	25.5	0.780	980	1,591	255
☐	4G35	29.4	0.554	1,355	2,179	294
☐	4G50	33.1	0.386	1,911	3,000	331
☐	4G70	38.1	0.272	2,653	4,124	381
☐	4G95	43.5	0.206	3,578	5,523	435
☐	4G120	47.3	0.161	4,499	6,860	473
☐	4G150	52.4	0.129	5,605	8,522	524
☐	4G185	58.1	0.106	6,894	10,481	581
☐	4G240	64.1	0.080	8,913	13,398	641

- Conductor max. DC resistance R20 follows DIN VDE 0295 / IEC 60228 Class 5 bare annealed copper at 20 °C.
- Transparent outer sheath is recommended for indoor routing; for outdoor UV exposure select black 2YSL(St)CYK-J 3PLUS.

Standards and approvals

- DIN VDE 0250 Low-Capacitance EMC Motor Cable
- EN 55011 / EN 61800-3 EMC Compatibility
- IEC 60332-1-2 Flame Retardant · RoHS / CE

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/2ysl-st-cy-j-0-6-1kv-double-screened-vfd-cable

Typical values for this cable type, based on DIN VDE 0250 · EN 55011 · IEC 60228 Cl.5 · HD 308 S2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.