Screened power & VFD / motor supply cables

2YSL(St)CY 3+3 0.6/1 kV

Symmetrical VFD Cable

Transparent-sheath symmetrical 3+3 PE-insulated double-screened VFD cable

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



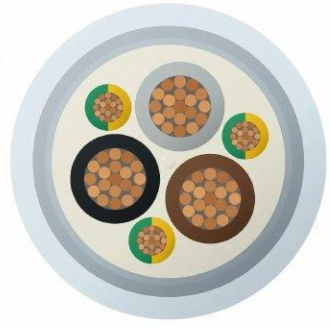
Application

2YSL(St)CY 3+3 0.6/1 kV combines Class 5 bare copper phases with three split green/yellow earths, low-capacitance PE insulation, dual foil/braid screening, and a transparent PVC sheath for visual shield inspection.

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**	Low-capacitance polyethylene (PE 2Y) · 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**	Transparent flame-retardant PVC outer sheath (visual braid inspection) · 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 +70 °C
Temp. range (flexing)	-5 °C to +70 °C	Short-circuit temp.	+160 °C (5 s)
Min. bending radius	10 × OD (fixed)	Flame retardance	IEC 60332-1-2 Flame
Oil & chemical perf.	Low-Capacitance PE	Environmental / EMC	EN 55011 EMC
Outer sheath	Transparent flame-retardant PVC outer		

Sizes

14 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
☐ 3×2.5 + 3G0.5	12.7	7.980	116	248	127
☐ 3×4 + 3G0.75	13.9	4.950	167	334	139
☐ 3×6 + 3G1	15.1	3.300	232	438	151
☐ 3×10 + 3G1.5	17.1	1.910	360	642	171
☐ 3×16 + 3G2.5	19.5	1.210	558	950	195
☐ 3×25 + 3G4	24.0	0.780	856	1,453	240
☐ 3×35 + 3G6	26.6	0.554	1,191	1,963	266
☐ 3×50 + 3G10	30.7	0.386	1,721	2,787	307
☐ 3×70 + 3G16	35.7	0.272	2,444	3,919	357
☐ 3×95 + 3G16	39.6	0.206	3,137	4,988	396
☐ 3×120 + 3G25	44.8	0.161	4,079	6,465	448
☐ 3×150 + 3G25	48.4	0.129	4,908	7,735	484
☐ 3×185 + 3G35	52.2	0.106	6,147	9,558	522
☐ 3×240 + 3G50	57.6	0.080	8,073	12,390	576

- 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 60228 Class 5
- HD 308 S2
- 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/2ysl-st-cy-3-3-0-6-1kv-symmetrical-clear-vfd-cable

Typical values for this cable type, based on DIN VDE 0250 · IEC 60228 Class 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.