Screened power & VFD / motor supply cables

2XSLCYRY 0.6/1 kV SWA

Armoured EMC VFD Cable

Galvanised steel-wire-armoured XLPE double-screened VFD power cable

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



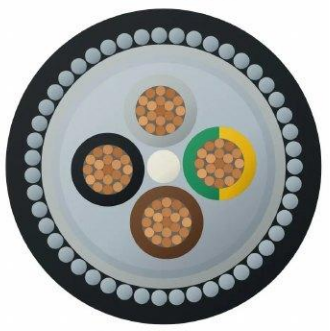
Application

2XSLCYRY 0.6/1 kV SWA unites XLPE insulation, dual Al-foil + tinned copper braid EMC screening, and galvanised steel wire armour (SWA) under a black PVC jacket for direct-burial VFD runs.

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**	Cross-linked polyethylene (XLPE 2X, 90 °C) · 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 + ≥ 85% tinned copper braid · EMC ≥ 85% / 100% foil
5	**Metallic armour**	Galvanised round steel wire armour (SWA) over extruded PVC bedding · DIN VDE 0250
6	**Outer sheath**	Black UV- & oil-resistant PVC outer sheath (DMV6) · 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 + ≥ 85% tinned
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	12 × OD (fixed)	Flame retardance	IEC 60332-1-2 Flame
Oil & chemical perf.	EN 60811-404 Oil	Environmental / EMC	UV & Direct Burial
Outer sheath	Black UV- & oil-resistant PVC outer		

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 12×D mm
☐	4G1.5	16.2	13.300	95	379	194
☐	4G2.5	17.4	7.980	134	468	209
☐	4G4	18.7	4.950	192	588	224
☐	4G6	20.1	3.300	269	740	241
☐	4G10	23.3	1.910	422	1,072	280
☐	4G16	27.0	1.210	650	1,546	324
☐	4G25	30.1	0.780	985	2,149	361
☐	4G35	34.0	0.554	1,359	2,872	408
☐	4G50	37.7	0.386	1,914	3,843	452
☐	4G70	42.9	0.272	2,655	5,202	515
☐	4G95	48.8	0.206	3,580	6,916	586
☐	4G120	52.6	0.161	4,500	8,471	631
☐	4G185	60.9	0.106	6,886	12,449	731

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (bare copper).
- Minimum bending radius calculated at 12 × 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/2xslcyry-0-6-1kv-swa-armoured-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.