

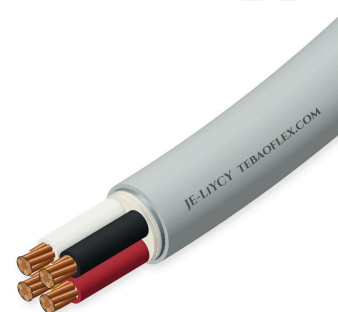


Control & signal cables

JE-LiYCY

Screened Industrial Electronic Cable

DIN VDE 0815 0.5 mm² paired-bundle copper-braid screened industrial electronic cable



DIN VDE 0815 Industrial

7-Wire 0.5 mm² Pairs (Bd)

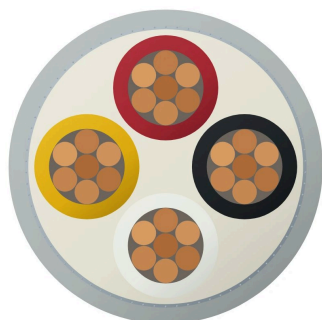
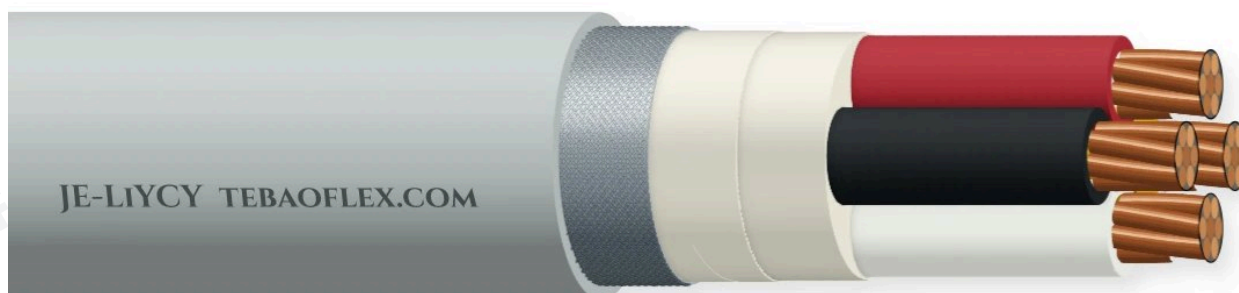
Grey or Sky-Blue Ex-i

Application

Industrial process-plant electronic cable to DIN VDE 0815 ('JE-LiYCY...Bd') featuring 7-wire stranded 0.5 mm² ('7×0.30 mm') copper pairs in 4-pair unit bundles ('Bd'), ≥80 % tinned-copper wire braid screen ('C') and grey or Ex-i sky-blue PVC sheath.

Typical uses: Chemical, petrochemical & refinery DCS marshalling, Power stations & waste-to-energy control rooms, Intrinsically safe (Ex-i, RAL 5015 blue) field loops, Water & wastewater treatment instrumentation, Food, beverage & pharmaceutical process plants

Construction



Cross-section, not to scale

1	7-wire stranded copper conductor	DIN VDE 0815
2	PVC core insulation (Y)	DIN VDE 0815 · Y12
3	Paired 4-pair unit bundles (Bd)	DIN VDE 0815
4	PET tape + tinned-copper braid (C)	DIN VDE 0815 · EN 60079-14
5	PVC outer sheath (Y)	DIN VDE 0207-5 YM1 · IEC 60332-1-2

Technical data

Typical values

Peak operating voltage	225 V (not permitted for heavy current power installation)	AC test voltage (50 Hz)	500 V AC (core/core) · 2000 V AC (core/screen)
Max. loop resistance (20 °C)	≤ 78.4 Ω/km (single conductor ≤ 39.2 Ω/km)	Mutual capacitance (800 Hz)	≤ 100 nF/km (core/core) — up to 4 pairs may exceed by 20 %
Inductance & L/R ratio	Approx. 0.65 mH/km (suited for EN 60079-14 Ex-i circuits)	Insulation resistance	≥ 100 MΩ·km at +20 °C
Temperature, flexing / installation	−5 °C to +50 °C	Temperature, fixed operation	−30 °C to +70 °C
Min. bending radius, fixed	6 × overall diameter	Min. bending radius, flexing	15 × overall diameter
Conductor stranding	7 × 0.30 mm (0.5 mm²) stranded bare copper ('Li')	Unit bundle stranding (Bd)	4 twisted pairs per bundle (2×2×0.5 stranded as star-quad)
Flame retardance	IEC 60332-1-2 / EN 60332-1-2 self-extinguishing · CPR Eca	EMC & Ex-i safety	2000 V core-to-screen dielectric strength + ≥ 80 % tinned-Cu braid screen
Standards	DIN VDE 0815 (JE-LiYCY...Bd)	Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends

Sizes

8 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
n × 2 × 0.5 mm² (7×0.30 mm) Paired Unit-Bundle Configurations (DIN VDE 0815) 8 sizes							
☐ JE-LiYCY 2×2×0.5 Bd	2×2×0.5	20	5.7	6.2	35	58	37
☐ JE-LiYCY 4×2×0.5 Bd	4×2×0.5	20	7.8	8.5	62	102	51
☐ JE-LiYCY 8×2×0.5 Bd	8×2×0.5	20	10.9	11.8	116	192	71
☐ JE-LiYCY 12×2×0.5 Bd	12×2×0.5	20	12.5	13.6	168	272	82
☐ JE-LiYCY 16×2×0.5 Bd	16×2×0.5	20	13.9	15.1	218	348	91
☐ JE-LiYCY 20×2×0.5 Bd	20×2×0.5	20	15.5	16.9	268	428	101
☐ JE-LiYCY 24×2×0.5 Bd	24×2×0.5	20	17.1	18.6	320	508	112
☐ JE-LiYCY 32×2×0.5 Bd	32×2×0.5	20	19.1	20.8	422	668	125

– Dimensions and weights are typical values per DIN VDE 0815 (JE-LiYCY...Bd). Minimum fixed bending radius shown is 6 × OD.

Electrical & current ratings

1 sizes

Cross-section mm²	AWG ≈	Max. DC resistance 20 °C, Ω/km	Single pair/core 30 °C, A	Multi-core bundle 30 °C, A
0.5	20	39	9.0	6.0

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / DIN VDE 0891-1. Apply grouping derating factors for multi-core control and signal bundles.

Standards and approvals

- ✓ DIN VDE 0815 (JE-LiYCY...Bd)
- ✓ 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/je-liycy-screened-industrial-electronic-cable



Typical values for this cable type, based on DIN VDE 0815 (JE-LiYCY...Bd). Values for your order are confirmed in the quotation. Subject to change without notice.
Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.