



Flat festoon cables

KYFLCY

Flat EMC Screened PVC Festoon Cable

Cold-flexible copper-screened EMC flat PVC power and control cable for cranes and hoists



DIN VDE 0250

300/500 V & 450/750 V

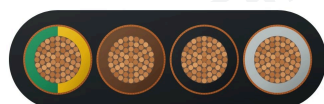
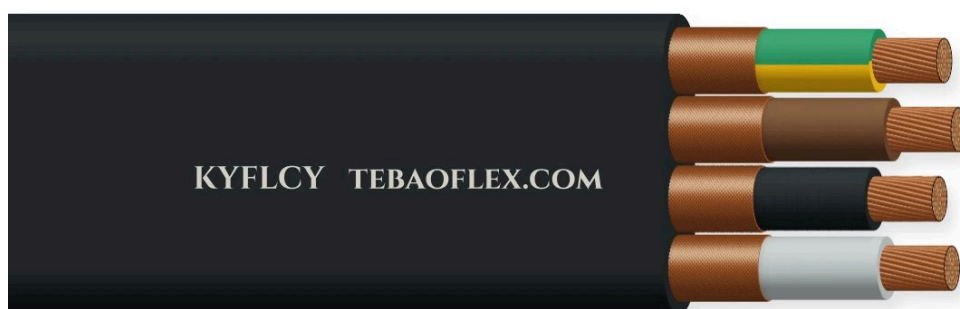
EMC Copper Braid

Application

EMC-screened cold-flexible PVC flat festoon cable (KYFLCY / KYCFLY / YFLCY based on DIN VDE 0250 and DIN EN 50214) with Class 5/6 bare copper conductors, 70–80 % copper braid screening and black oil-resistant PVC sheath.

Typical uses: VFD-driven bridge & gantry cranes, High-bay rack feeder & stacker cranes, Hoist encoder & instrumentation loops, Industrial camera & telemetry trolleys, Automated transfer & assembly lines, Container & warehouse crane bridges

Construction



Cross-section, not to scale

- 1 Conductor
- 2 Core insulation
- 3 EMC copper screen
- 4 Core arrangement
- 5 Outer sheath

IEC 60228 / DIN VDE 0295

Technical data

Typical values

Rated voltage U0/U	300 V (0.5 mm ²) · 300/500 V (> 1.0 mm ²)	AC test voltage	1.2 kV (0.5 mm ²) · 2.0 kV (> 1.0 mm ²)
EMC screening	Bare or tinned copper braid / lapped wire screen over cores or bundles, approx. 70–80 % optical coverage	Conductor resistance at 20 °C	IEC 60228 / DIN VDE 0295 Class 5/6 bare copper
Max. conductor operating temperature	+70 °C	Max. short-circuit temperature (≤ 5 s)	+150 °C
Ambient temperature — flexing / mobile	-30 to +70 °C (KYFLCY / KYCFLY) · -25 to +60 °C (YFLCY)	Ambient temperature — fixed installation	-40 to +70 °C
Max. travel speed (festoon / lift)	1.6 m/s (96 m/min)	Max. free suspension height	35 m
Min. bending radius — flexing in flat plane	10 × cable height H	Min. bending radius — fixed installation	10 × cable height H
Standards	DIN VDE 0250 · DIN EN 50214 · IEC 60228 (DIN VDE 0295 Class 5/6)	Standard packing	500 m on wooden drums or cut-to-length festoon sets

Sizes

20 standard constructions

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

Order designation -J	Order designation -O	Cores × mm ²	AWG ≈	Height max mm	Width max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Max. pull N
Control 0.5 mm² 1 sizes									
☐ KYFLCY-JB 5G0.5	KYFLCY-OB 5×0.5	5 × 0.5	20	4.8	20.2	75	119	48	38
Bundled BD 6 sizes									
☐ KYFLCY 20G0.5 Bd	KYFLCY 20×0.5 Bd	20 × 0.5 Bd	20	8.2	37.6	175	474	82	150
☐ KYFLCY-J 7×4G0.5	KYFLCY-O 7×4×0.5	7 × 4 × 0.5	20	10.3	50.0	222	745	103	210
☐ KYFLCY 8×7G0.5	KYFLCY 8×7×0.5	8 × 7 × 0.5	20	12.5	71.0	455	1,180	125	420
☐ KYFLCY 4×4G1	KYFLCY 4×4×1	4 × 4 × 1	18	11.5	35.5	315	625	115	240
☐ KYFLCY-JZ 16G1 Bd	KYFLCY-OZ 16×1 Bd	16 × 1 Bd	18	9.4	34.5	315	565	94	240
☐ KYFLCY 7×3G1	KYFLCY 7×3×1	7 × 3 × 1	18	10.4	54.3	392	755	104	315
1.5 mm² 3 sizes									
☐ KYFLCY-J 4G1.5	KYFLCY-O 4×1.5	4 × 1.5	16	5.4	16.6	91	169	54	90
☐ KYFLCY-J 8G1.5	KYFLCY-O 8×1.5	8 × 1.5	16	5.4	31.2	220	382	54	180
☐ KYFLCY-J 12G1.5	KYFLCY-O 12×1.5	12 × 1.5	16	5.4	45.8	330	560	54	270
Power 2.5–95 mm² 10 sizes									
☐ KYFLCY-J 4G2.5	KYFLCY-O 4×2.5	4 × 2.5	14	6.4	19.8	168	250	64	150
☐ KYFLCY-J 8G2.5	KYFLCY-O 8×2.5	8 × 2.5	14	7.4	44.0	325	560	74	300
☐ KYFLCY-J 4G4	KYFLCY-O 4×4	4 × 4	12	7.0	22.0	208	320	70	240
☐ KYFLCY-J 4G6	KYFLCY-O 4×6	4 × 6	10	7.8	25.2	325	480	78	360
☐ KYFLCY-J 4G10	KYFLCY-O 4×10	4 × 10	8	9.7	31.2	518	675	97	600
☐ KYFLCY-J 4G16	KYFLCY-O 4×16	4 × 16	6	10.8	36.7	720	950	108	960
☐ KYFLCY-J 4G25	KYFLCY-O 4×25	4 × 25	4	13.1	44.7	1,100	1,550	131	1,500
☐ KYFLCY-JB 4G35	KYFLCY-OB 4×35	4 × 35	2	17.6	55.2	1,510	1,860	176	2,100
☐ KYFLCY-J 4G50	KYFLCY-O 4×50	4 × 50	1	22.0	62.0	2,519	2,850	220	3,000
☐ KYFLCY-J 4G95	KYFLCY-O 4×95	4 × 95	3/0	20.5	73.0	4,160	4,850	205	5,700

- Copper index (kg/km) includes both the phase/control conductors and the copper EMC braided screen.
- Minimum dynamic bending radius is 10 × cable height H in the flat bending plane.

Electrical & conductor data

12 sizes

Cross-section mm ²	AWG ≈	Stranding IEC 60228	Max. conductor resistance 20 °C, Ω/km	Current rating in air 30 °C, A	Short-circuit 1 s kA	Used in
0.5	20	Class 5 / 6	39	9	0.06	5×0.5, 20×0.5 Bd, 7×4×0.5, 8×7G0.5
1	18	Class 5 / 6	19.5	15	0.14	4×4G1, 16×1 Bd, 7×3G1
1.5	16	Class 5	13.3	18	0.21	4G1.5, 8G1.5, 12G1.5
2.5	14	Class 5	7.98	26	0.36	4G2.5, 8G2.5
4	12	Class 5	4.95	34	0.57	4G4
6	10	Class 5	3.3	44	0.86	4G6
10	8	Class 5	1.91	61	1.43	4G10
16	6	Class 5	1.21	82	2.29	4G16
25	4	Class 5	0.78	108	3.58	4G25
35	2	Class 5	0.554	135	5.01	4G35
50	1	Class 5	0.386	168	7.15	4G50
95	3/0	Class 5	0.206	250	13.59	4G95

– Current ratings are for 3 loaded cores at 30 °C in free air per DIN VDE 0298-4; apply grouping reduction factors for multi-core control and bundled cables.

Standards and approvals

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

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/kyflcy-flat-emc-pvc-festoon-cable



Typical values for this cable type, based on DIN VDE 0250 / EN 50214. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.