



Flat festoon cables

KYFLTCY

Self-Supporting Flat EMC PVC Festoon Cable

Flat EMC-screened PVC crane & hoist cable with integrated suspension elements (up to 80 m)



DIN EN 50214

300/500 V

Integrated Support Elements

Application

Self-supporting cold-flexible PVC flat festoon and hoist control cable (KYFLTCY / KYFLTCY / H05VVD3H6-F) featuring integrated steel or textile suspension elements, 70–80 % copper EMC braid screening and black oil-resistant PVC sheath.

Typical uses: Deep-drop crane & hoist pendants, High-bay automated storage & retrieval (AS/RS), Container crane spreader & trolley loops, Industrial elevators & vertical lifts, Moving camera & telemetry gantries, Machine tool & transfer bridges

Construction



Cross-section, not to scale

1	Conductor	IEC 60228 / DIN VDE 0295
2	Core insulation	
3	EMC copper screen	
4	Suspension elements	
5	Flat core & bundle lay-up	
6	Outer sheath	IEC 60332-1-2 · LABS- & silicone-free

Technical data

Typical values

Rated voltage U0/U	300 V (0.5 mm ²) · 300/500 V (≥ 0.75 mm ²)	AC test voltage	1.2 kV (0.5 mm ²) · 2.0 kV (≥ 0.75 mm ²)
EMC screening	Bare or tinned copper braid or lapped wire screen over cores/bundles, approx. 70–80 % coverage	Conductor resistance at 20 °C	IEC 60228 / DIN VDE 0295 Class 5/6 bare copper
Max. conductor operating temperature	+70 °C	Ambient temperature — flexing / mobile	-25 to +60 °C (+70 °C conductor)
Ambient temperature — fixed installation	-40 to +70 °C	Integrated suspension elements	Parallel lateral steel wire ropes or high-tenacity aramid/textile support cords molded into the outer edges
Max. free suspension height	35 m to 80 m (model dependent: 35 m KYFLTCY, 50 m KYFLTFY 28G1, 75 m H05VVD3H6-F, 80 m KYFLTY)	Max. travel speed	1.6 m/s (96 m/min) festoon · up to 6.0 m/s in guided lift shafts
Min. bending radius — flexing in flat plane	10 × cable height H	Standards	DIN EN 50214 (H05VVD3H6-F / H07VVD3H6-F) · DIN VDE 0281-403 · DIN VDE 0250
Standard packing	500 m on wooden drums or custom cut hoist lengths		

Sizes

11 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. drop m
EMC screened (KYFLTCY / KYFLTCY) 6 sizes									
☐ KYFLTCY 20G0.5 Bd	KYFLTCY 20×0.5 Bd	20 × 0.5 Bd	20	7.6	36.5	175	439	76	35
☐ KYFLTCY-JB 5×4G0.5	KYFLTCY-OB 5×4×0.5	5 × 4 × 0.5	20	8.0	40.0	175	450	80	35
☐ KYFLTCY 8G1 BD	KYFLTCY 8×1 BD	8 × 1 BD	18	8.5	32.0	162	467	85	50
☐ KYFLTCY 28G1	KYFLTCY 28×1	28 × 1	18	11.0	71.0	462	1,180	110	50
☐ KYFLTFY 28G1+2×(0.5)C	KYFLTFY 28×1+2×(0.5)C	28G1 + 2×(0.5)C	18	11.2	72.4	307	1,150	112	50
☐ KYFLTCY 30G1 BD	KYFLTCY 30×1 BD	30 × 1 BD	18	11.5	74.0	445	1,084	115	50
Hybrid lift (0.75 + 0.34 mm ²) 1 sizes									
☐ KYFLTCY 28G0.75+4×(2×0.34)C	KYFLTCY 28×0.75+4×(2×0.34)C	28G0.75 + 4×(2×0.34)ST	19	5.0	90.0	227	760	50	45
Unscreened support (H05VVD3H6-F / KYFLTY) 2 sizes									
☐ H05VVD3H6-F 24G1	H05VVD3H6-F 24×1	24 × 1	18	5.0	77.0	230	800	50	75
☐ KYFLTY 6×5G1	KYFLTY 6×5×1	6 × 5 × 1	18	10.6	70.0	288	960	106	80
Power 2.5–16 mm ² 2 sizes									
☐ KYFLTCY 6G2.5	KYFLTCY 6×2.5	6 × 2.5	14	7.4	32.0	270	410	74	50
☐ KYFLTCY 4G16 BD	KYFLTCY 4×16 BD	4 × 16 BD	6	14.0	46.0	720	1,280	140	50

- Max. drop (m) indicates the maximum permissible free hanging height supported by the integrated steel/textile strain-relief members.
- Minimum dynamic bending radius is 10 × cable height H in the flat bending plane.

Electrical & conductor data

6 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
0.34	22	Class 5	54.4	6	0.04	4×(2×0.34)ST data pairs
0.5	20	Class 5 / 6	39	9	0.06	20×0.5 Bd, 5×4×0.5, 2×(0.5)C
0.75	19	Class 5	26	12	0.09	28G0.75+4×(2×0.34)ST
1	18	Class 5 / 6	19.5	15	0.14	8×1 BD, 24G1, 28×1, 30×1 BD, 6×5G1

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
2.5	14	Class 5	7.98	26	0.36	6×2.5
16	6	Class 5	1.21	82	2.29	4×16 BD

– 0.34 mm² shielded data pairs in lift/hoist hybrid constructions have a characteristic impedance of 110 Ω ± 10 % for CAN-bus / RS-485 telemetry.

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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/kyfltfcy-flat-emc-pvc-cable-with-suspension-element



Typical values for this cable type, based on DIN EN 50214 / VDE 0281-403. Values for your order are confirmed in the quotation. Subject to change without notice.
Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.