

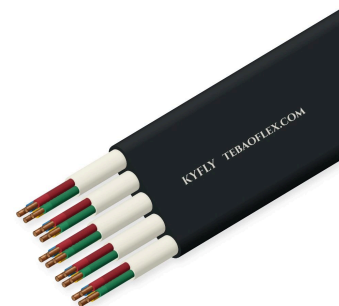


Flat festoon cables

KYFLY

Flat PVC Festoon Cable for Cranes & Hoists

Cold-flexible PVC flat festoon power and control cable for cranes, hoists and trolleys



DIN EN 50214

300/500 V & 450/750 V

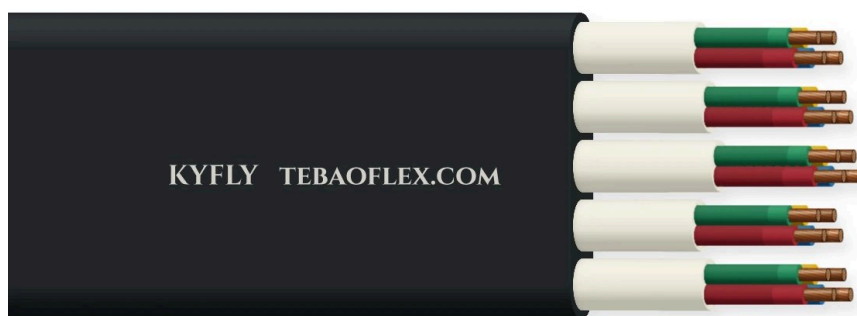
Cold-flexible PVC

Application

Cold-flexible PVC flat festoon cable (KYFLY / H05VVH6-F / H07VVH6-F to DIN EN 50214 and DIN VDE 0281-403) with Class 5/6 bare copper conductors and black TM2 PVC jacket for single-plane bending down to -30 °C.

Typical uses: Indoor overhead bridge cranes, Electric wire-rope & chain hoists, High-bay warehouse stacker cranes, Elevator & lift travelling loops, Surface treatment & dip transfer lines, Machine tool & gantry carriers

Construction



Cross-section, not to scale

- 1 Conductor
- 2 Core insulation
- 3 Core arrangement
- 4 Outer sheath

IEC 60228 / DIN VDE 0295

Technical data

Typical values

Rated voltage U0/U	300/500 V ($\leq 1.0 \text{ mm}^2$ & KYFLY bundles) · 450/750 V ($\geq 1.5 \text{ mm}^2$ H07VVH6-F)	AC test voltage	2.0 kV (300/500 V) · 2.5 kV (450/750 V)
Conductor resistance at 20 °C	IEC 60228 / DIN VDE 0295 Class 5/6 bare copper	Current rating basis	DIN EN 50565-1 / DIN VDE 0298-4 at 30 °C in air
Max. conductor operating temperature	+70 °C	Max. short-circuit temperature ($\leq 5 \text{ s}$)	+150 °C
Ambient temperature — flexing / mobile	-30 to +70 °C (KYFLY) · -25 to +60 °C (H07VVH6-F)	Ambient temperature — fixed installation	-40 to +70 °C (KYFLY) · -35 to +60 °C (H07VVH6-F)
Max. travel speed (festoon / lift)	1.6 m/s (96 m/min)	Max. free suspension height	35 m (H07VVH6-F / KYFLY) · 45 m (H05VVH6-F)
Max. tensile load on copper conductor	15 N/mm ² static · 30 N/mm ² dynamic	Min. bending radius — flexing in flat plane	10 × cable height H
Min. bending radius — fixed installation	10 × cable height H (or 4–5 × H per DIN EN 50565-1)	Standards	DIN EN 50214 (VDE 0283-2) · DIN VDE 0281-403 / 0281-404 · DIN VDE 0250
Standard packing	500 m on wooden drums or cut-to-length festoon sets		

Sizes

50 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
Bundled BD 6 sizes									
☐ KYFLY 5×4×0.5 BD	KYFLY 5×4×0.5 BD	5 × 4 × 0.5	20	8.1	37.1	96	402	81	150
☐ KYFLY 8×7G0.5	KYFLY 8×7×0.5	8 × 7 × 0.5	20	12.2	68.0	286	1,020	122	420
☐ KYFLY 3×(4G1)	KYFLY 3×(4×1)	3 × (4 × 1)	18	8.4	19.4	116	300	84	180
☐ KYFLY 4×(4G1)	KYFLY 4×(4×1)	4 × (4 × 1)	18	8.4	25.3	154	400	84	240
☐ KYFLY 7×3G1	KYFLY 7×3×1	7 × 3 × 1	18	10.3	50.0	202	710	103	315
☐ KYFLY 6×7G1.5	KYFLY 6×7×1.5	6 × 7 × 1.5	16	16.0	73.0	605	1,750	160	945
0.75 mm² 6 sizes									
☐ KYFLY-J 4G0.75	KYFLY-O 4×0.75	4 × 0.75	19	4.1	11.5	29	95	41	45
☐ KYFLY-J 6G0.75	KYFLY-O 6×0.75	6 × 0.75	19	5.0	19.0	43	130	50	68
☐ KYFLY-J 12G0.75	KYFLY-O 12×0.75	12 × 0.75	19	4.6	32.8	86	260	46	135
☐ KYFLY-J 18G0.75	KYFLY-O 18×0.75	18 × 0.75	19	4.6	48.5	130	400	46	202
☐ KYFLY-J 20G0.75	KYFLY-O 20×0.75	20 × 0.75	19	4.6	53.0	144	430	46	225
☐ KYFLY-J 24G0.75	KYFLY-O 24×0.75	24 × 0.75	19	4.6	63.2	173	490	46	270
1 mm² 6 sizes									
☐ KYFLY-J 4G1	KYFLY-O 4×1	4 × 1	18	5.6	14.1	39	115	56	60
☐ KYFLY-J 5G1	KYFLY-O 5×1	5 × 1	18	5.6	16.6	48	135	56	75
☐ KYFLY-J 8G1	KYFLY-O 8×1	8 × 1	18	5.6	25.6	77	220	56	120
☐ KYFLY-J 12G1	KYFLY-O 12×1	12 × 1	18	5.6	35.2	116	310	56	180
☐ KYFLY-J 18G1	KYFLY-O 18×1	18 × 1	18	5.6	53.4	173	450	56	270
☐ KYFLY-J 24G1	KYFLY-O 24×1	24 × 1	18	5.6	68.1	230	590	56	360
1.5 mm² 10 sizes									
☐ KYFLY-J 4G1.5	KYFLY-O 4×1.5	4 × 1.5	16	5.8	15.6	58	150	58	90
☐ KYFLY-J 5G1.5	KYFLY-O 5×1.5	5 × 1.5	16	5.8	18.6	72	180	58	112
☐ KYFLY-J 7G1.5	KYFLY-O 7×1.5	7 × 1.5	16	5.8	26.0	101	260	58	158
☐ KYFLY-J 8G1.5	KYFLY-O 8×1.5	8 × 1.5	16	5.8	28.3	115	300	58	180

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
☐ KYFLY-J 10G1.5	KYFLY-O 10×1.5	10 × 1.5	16	5.8	35.0	144	360	58	225
☐ KYFLY-J 12G1.5	KYFLY-O 12×1.5	12 × 1.5	16	5.8	41.4	173	420	58	270
☐ KYFLY-J 14G1.5	KYFLY-O 14×1.5	14 × 1.5	16	5.8	50.8	202	490	58	315
☐ KYFLY-J 16G1.5	KYFLY-O 16×1.5	16 × 1.5	16	5.8	54.0	230	560	58	360
☐ KYFLY-J 18G1.5	KYFLY-O 18×1.5	18 × 1.5	16	5.8	60.2	259	620	58	405
☐ KYFLY-J 24G1.5	KYFLY-O 24×1.5	24 × 1.5	16	5.8	83.0	346	790	58	540
2.5 mm ² 6 sizes									
☐ KYFLY-J 4G2.5	KYFLY-O 4×2.5	4 × 2.5	14	6.0	18.2	96	210	60	150
☐ KYFLY-J 5G2.5	KYFLY-O 5×2.5	5 × 2.5	14	6.0	23.2	120	260	60	188
☐ KYFLY-J 7G2.5	KYFLY-O 7×2.5	7 × 2.5	14	6.0	32.4	168	380	60	262
☐ KYFLY-J 8G2.5	KYFLY-O 8×2.5	8 × 2.5	14	6.0	34.8	192	405	60	300
☐ KYFLY-J 12G2.5	KYFLY-O 12×2.5	12 × 2.5	14	6.0	50.8	288	620	60	450
☐ KYFLY-J 24G2.5	KYFLY-O 24×2.5	24 × 2.5	14	6.0	98.7	576	1,160	60	900
Power 4–95 mm ² 16 sizes									
☐ KYFLY-J 4G4	KYFLY-O 4×4	4 × 4	12	6.9	20.0	154	300	69	240
☐ KYFLY-J 5G4	KYFLY-O 5×4	5 × 4	12	7.0	26.0	192	380	70	300
☐ KYFLY-J 7G4	KYFLY-O 7×4	7 × 4	12	7.0	38.0	269	550	70	420
☐ KYFLY-J 12G4	KYFLY-O 12×4	12 × 4	12	7.0	58.5	462	880	70	720
☐ KYFLY-J 4G6	KYFLY-O 4×6	4 × 6	10	7.2	22.8	230	390	72	360
☐ KYFLY-J 5G6	KYFLY-O 5×6	5 × 6	10	7.2	26.6	290	480	72	450
☐ KYFLY-J 7G6	KYFLY-O 7×6	7 × 6	10	8.5	42.5	403	700	85	630
☐ KYFLY-J 4G10	KYFLY-O 4×10	4 × 10	8	10.5	29.0	384	620	105	600
☐ KYFLY-J 5G10	KYFLY-O 5×10	5 × 10	8	10.5	38.3	480	780	105	750
☐ KYFLY-J 4G16	KYFLY-O 4×16	4 × 16	6	11.0	37.0	614	990	110	960
☐ KYFLY-J 5G16	KYFLY-O 5×16	5 × 16	6	11.0	43.0	770	1,200	110	1,200
☐ KYFLY-J 4G25	KYFLY-O 4×25	4 × 25	4	13.5	46.0	960	1,550	135	1,500
☐ KYFLY-J 4G35	KYFLY-O 4×35	4 × 35	2	14.8	51.0	1,344	2,030	148	2,100
☐ KYFLY-J 4G50	KYFLY-O 4×50	4 × 50	1	17.0	57.0	1,920	2,650	170	3,000
☐ KYFLY-J 4G70	KYFLY-O 4×70	4 × 70	2/0	18.5	64.0	2,700	3,650	185	4,200
☐ KYFLY-J 4G95	KYFLY-O 4×95	4 × 95	3/0	21.0	74.0	3,650	4,550	210	5,700

– Height max (H) and Width max (W) represent upper nominal profile dimensions; min. dynamic bending radius is 10 × H in the flat bending plane.

– Max. pull (N) is calculated at 15 N/mm² static copper tensile stress across all load-bearing cores.

Electrical & conductor data

14 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	5×4×0.5 BD, 8×7G0.5
0.75	19	Class 5	26	12	0.09	4G0.75–24G0.75
1	18	Class 5	19.5	15	0.14	4G1–24G1, 7×3G1
1.5	16	Class 5	13.3	18	0.21	4G1.5–24G1.5, 6×7G1.5
2.5	14	Class 5	7.98	26	0.36	4G2.5–24G2.5
4	12	Class 5	4.95	34	0.57	4G4–12G4
6	10	Class 5	3.3	44	0.86	4G6–7G6
10	8	Class 5	1.91	61	1.43	4G10, 5G10
16	6	Class 5	1.21	82	2.29	4G16, 5G16
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

Cross-section mm ²	Stranding AWG ≈ IEC 60228	Max. conductor resistance 20 °C, Ω/km	Current rating in air 30 °C, A	Short-circuit 1 s kA	Used in
70	2/0 Class 5	0.272	207	10.01	4G70
95	3/0 Class 5	0.206	250	13.59	4G95

– Current ratings are given for 3 loaded cores in free air at 30 °C ambient per DIN VDE 0298-4 / DIN EN 50565-1; apply grouping reduction factors for multi-core control cables and stacked festoon packs.

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/kyfly-flat-pvc-festoon-cable



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.