

KYFLY 300/500V Flexible Flat PVC Crane & Hoist Festoon Cable

KYFLY is a 300/500 V flexible flat PVC power and control cable engineered to DIN VDE 0281-403 for overhead workshop cranes, electric wire-rope and chain hoists, automated warehouse stacker trolleys, plating lines, and machine tools operating under medium mechanical stress and repeated single-plane bending.

1. CABLE CONSTRUCTION

1. Conductors	Fine-stranded bare copper (Cu-bare) conductors in accordance with DIN VDE 0295 Category 5 / IEC 60228 Class 5
2. Core Insulation	Flexible PVC core insulation formulated for repeated single-plane bending down to -25°C
3. Core Identification	5-, 20- (5×4 BD), and 28-wire special color coding, or black numbered cores with one green/yellow (GN/YE) protective earth core
4. Parallel Bundle Lay-Up	Sub-groups stranded with short pitch, wrapped in separating tape, and arranged parallel in one horizontal plane
5. Outer Sheath	Extruded black flexible PVC flat sheath per DIN VDE 0281-403 with smooth low-friction faces for multi-layer stacking

Cross-Section Reference



Parallel bundle-stranded flat PVC profile (e.g. 5×4×0.5 BD / 24-core) for compact single-plane crane trolley festoon loops.

2. ELECTRICAL, MECHANICAL & ENVIRONMENTAL DATA

Nominal Voltage (U0/U)	300 / 500 V AC
Conductor Class	DIN VDE 0295 Category 5 (IEC 60228 Class 5 bare copper)
Max. Conductor Operating Temp.	+70°C
Ambient Temperature (Mobile)	-25°C to +70°C (guided trolley & hoist loops)
Ambient Temperature (Fixed)	-35°C to +70°C
Bending Geometry	Single-plane bending across minor axis H (min. mobile bend radius ~10 × H)
Operating Environment	Dry, damp, and wet industrial workshops, crane bays, and conveyor halls
Compliance	RoHS & REACH compliant; flame-retardant per IEC 60332-1-2

3. DIMENSIONAL, WEIGHT & PERFORMANCE SPECIFICATIONS

KYFLY 300/500 V Unscreened Flexible Flat PVC Crane Festoon Series				
Part Designation	External Dimensions H × W (ca. mm)	Copper Weight (kg/km)	Approx. Cable Weight (kg/km)	Sheath Color
KYFLY 5 × 4 × 0.5 BD	8.1 × 37.1	96.00	402.00	Black
KYFLY 12 × 0.75	Project / Custom*	86.40	260.00	Black
KYFLY 18 × 0.75	Project / Custom*	130.00	438.00	Black
KYFLY 24 × 0.75	Project / Custom*	173.00	490.00	Black
KYFLY 18 × 1	Project / Custom*	173.00	450.00	Black
KYFLY 24 × 1	Project / Custom*	230.40	590.00	Black
KYFLY 18 × 1.5	Project / Custom*	259.00	620.00	Black

***Dimensional & Packing Note:** Exact H × W cross-sectional dimensions for 12-, 18-, and 24-core builds (side-by-side single-row vs. bundle-grouped web) are confirmed on the production drawing to match your existing flat cable gland and trolley saddle width. Standard packing: 500 m wooden drums.