Automation, drag-chain & robot cables

HF25G0.75CY (350CY) 300/500V VDE

Braided High-Flex Control Cable

DIN VDE 0285 / IEC 60228 Class 6 · 300/500 V · −5…+70 °C · Min. bend 7.5 × OD

DIN VDE 0285 / IEC 60228 Class 6 | 300/500 V



Application

DIN VDE 0285 / IEC 60228 Class 6 (300/500 V, -5 to +70 °C flexing) 25G0.75 mm² inner-jacketed and 85% tinned copper braid shielded drag-chain control cable.

Typical uses: Industrial automation & control cabinets, Inverter-fed motor drive systems, Process instrumentation & oil/gas skids, Machine tools & robotic cells, Data centers, stadiums & broadcast facilities

Construction





Cross-section, not to scale

1	25×0.75mm² Super-Fine Bare Copper	IEC 60228 Class 6 Extra-Fine Stranded Bare Copper
2	Modified PVC Insulation (24 Black + 1 G/Y)	White Numbered Black Cores + Green/Yellow Earth
3	Extruded Grey PVC Inner Bedding Jacket	Core-Stabilizing Inner Sheath for Drag-Chain Duty
4	85% Tinned Copper Wire Braid Shield (CY)	360° EMC Braided Tinned Copper Screen
5	Oil-Resistant Grey PVC Outer Jacket	VDE-Certified High-Flex PVC Sheath (16.4 mm OD)

Technical data

Typical values

Nominal / reference voltage	300/500 V	Conductor & core insulation	IEC 60228 Class 6 Extra-Fine Stranded Bare Copper · White Numbered Black Cores + Green/Yellow Earth
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	−5…+70 °C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	DIN VDE 0285 / IEC 60228 Class 6
Minimum bending radius	7.5 × OD	Screening / armour architecture	360° EMC Braided Tinned Copper Screen
Outer sheath material & colour	VDE-Certified High-Flex PVC Sheath (16.4 mm OD)	Standards	DIN VDE 0285 / IEC 60228 Class 6 / IEC 60332-1-2 / EN 50525

Sizes

3 standard constructions

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

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
HF25G0.75CY (350CY) 300/500V VDE 3 sizes										
☐ HF25G0.75CY (350CY) 25G0.75 mm²	25G0.75 mm² (24 Numbered + 1 G/Y)	IEC 60228 Class 6 Cu + Inner Jacket + 85% TCWB	White Numbered Black Cores + Green/Yellow Earth	Industrial PVC	16.4	123	26.00	252.0	462	300/500 V (9 A · 4 kV AC Test)
☐ HF12G0.75CY (350CY) 12G0.75 mm²	12G0.75 mm² (11 Numbered + 1 G/Y)	IEC 60228 Class 6 Cu + Inner Jacket + 85% TCWB	White Numbered Black Cores + Green/Yellow Earth	Industrial PVC	12.1	91	26.00	128.0	238	300/500 V (12 A · 4 kV AC Test)
☐ HF18G0.75CY (350CY) 18G0.75 mm²	18G0.75 mm² (17 Numbered + 1 G/Y)	IEC 60228 Class 6 Cu + Inner Jacket + 85% TCWB	White Numbered Black Cores + Green/Yellow Earth	Industrial PVC	14.2	107	26.00	184.0	336	300/500 V (10 A · 4 kV AC Test)

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ DIN VDE 0285 / IEC 60228 Class 6 Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ 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/hf25g0-75cy-350cy-300-500v-vde-inner-jacketed-braided-high-flex-control-cable**

Typical values for this cable type, based on Reference specification per DIN VDE 0285 / IEC 60228 Class 6 (HF25G0.75CY (350CY) 300/500V VDE). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.