



DATA SHEET	0036051
ÖLFLEX® ROBUST FD 756 C	valid from : 14.02.2008

Application

ÖLFLEX® ROBUST FD 756 C cables are shielded, highly flexible, oil resistant supply cables for servo motors, especially for use in power chains, automatic manipulators and in permanently moved machine parts. For use in dry, damp, wet locations. Inside & outdoor. Usage on motor drum guidance or under a strain of more than 15 N/mm² is not allowed. ÖLFLEX® ROBUST FD 756 C cables are increased bio-oil and water resistant and at room temperature generally resistant against diluted acids and caustics solutions, certain oils, greases and waxes, based on vegetable-, animal-, mineral- or synthetics. The special TPE outer sheath is resistant against ordinary mechanical abuse, extraordinary hydrolysis resistance, when in contact with cold, warm or hot water or water based fluids. Therefore this cable is predestinated for usage in metal processing machine tools using water based fluids and bio degradable oils. In/on devices, apparatus, machines for farming, food processing, beverage, pharmaceuticals, body care industry, composting and sewage plants. In textile -fibre production sides, in areas where a permanent cleaning procedure is obligatory (I.e. use of steam cleaners, pressure washers). Use in commercial and household locations. The intended usage of the core pairs are is for signaling and controlling purposes, like for example thermocouple and/or brake. In order to avoid any interference of the signals the pairs are screened in a double way, i.e. an aluminium -cladded foil having a copper-braiding on top with supplementary drain wire. Cables with two pairs are each separate sheathed. The outside screen is a whole protection against electrical interference.

Technical data

Conductor	Bare copper, superfine wire strand in accordance to IEC 60 228 that is VDE 0295, class 6, that is for the control pair class 5
Design	In support to HD 21.5 S3 that is VDE 0281-5
Core insulation	Special TPE (Thermoplastic Elastomer) low capacitance characteristic.
Identification	in acc. to HD 186 resp. VDE 0293, black cores with white numbers with green/yellow ground conductor, power cores: No 1 -3. First control pair: No 5+6. Second control pair: No 7+8.
Screen signal pairs	taped with an aluminium-laminated foil, having a spiral of tinned copper wires on top
Overall screen	Braid made of tinned copper wires about wrapping, coverage factor = 85 % (nominal value)
Outer sheath	Lapp P4/11 Thermoplastic Elastomere (TPE), flame retardant, black.
Nominal voltage	Supply cores: 600/1000 V
Working voltage	Control pair: 250 V AC
Test voltage	Supply cores: 4000 V AC Control pairs: 750 V AC
Temp. range	For flexible use -40 up to +80 °C max. conductor temperature
Min. bending radius	Flexing use: 7,5 x cable diameter
Tests	In acc. to VDE 0472 and IEC 60 811-x.x that is VDE 0473
EC directive	this cable confirms to ECD 2006/95/EC (low voltage directive).

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