



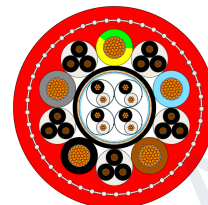
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

FLUGZEUGHEBER-T TRAILING PUR CABLE

Hybrid aircraft assembly cable for control and positioning robots



APPLICATION

Trailing hybrid cable for aircraft assembly support robots that combine power supply, control and positioning laser functions. Designed for demanding lifting and material-handling operations.

KEY FEATURES

Parameter	Value
Application	Trailing hybrid cable for aircraft assembly support robots and positioning systems
Hybrid design	Combines power supply, control cores and shielded data pairs for positioning laser systems
Low-temperature flexibility	PUR outer sheath remains flexible from -20 to +80 deg C during flexing
Mechanical protection	Integrated support braid with strong resistance to abrasion, oil, hydrolysis and microbes

DESIGN

Parameter	Value
Conductor	Bare copper, extra-fine high-flexibility conductors, Class 6
Power/control cores	Cold-flexible PVC or TPE-E insulation with black numbered cores
Data pair	0.34 mm ² polyethylene insulated twisted pairs, foil wrapped and tinned copper screened
Outer sheath	PUR, grey for 70736 and orange for 77548, with integrated support braid

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Flexing temperature	-20 deg C to +80 deg C
Power-core voltage	600/1000 V
Control-core voltage	300/500 V
AC test voltage, 50 Hz	Power cores 4000 V; control cores 1500 V
Minimum bending radius	15 x cable diameter for flexible installation
Conductor standard	DIN VDE 0295 Class 6; BS 6360 Class 6; IEC 60228 Class 6
Data-pair screen	Tinned copper braid, approximately 85% coverage
Sheath performance	UV resistant; oil, hydrolysis and microbial attack resistant
Application	Control and positioning support robots in aircraft assembly

TECHNICAL DATA

FLUGZEUGHEBER-T - HYBRID CABLE DATA						
Version	Power/control structure	Data pair	Outer diameter app. mm	Approx. weight kg/km	Rated voltage	Bend radius
Flugzeugheber-T 70736	5 x 4 mm2 + 5 x 3G 0.75 mm2	2 x 2 x 0.34 mm2, screened	25.6	600	600/1000 V power; 300/500 V control	15 x D
Flugzeugheber-T 77548	5 x 2.5 mm2 + 18G 1.0 mm2	4 x 2 x 0.34 mm2, screened	27.0	750	600/1000 V power; 300/500 V control	15 x D

CONSTRUCTION AND APPLICATION NOTES

Parameter	Value
Part 70736	4 x 4 mm2 power cores + 5 x 3G 0.75 mm2 control cores + 2 x 2 x 0.34 mm2 data pairs
Part 77548	5 x 2.5 mm2 power cores + 18G 1.0 mm2 control cores + 4 x 2 x 0.34 mm2 data pairs
Data screen	Foil wrapping and tinned copper braid, approximately 85% coverage
Support	Integrated support braiding under the PUR outer sheath
Data note	Dimensions and weights are approximate and subject to manufacturing tolerances

CERTIFICATIONS



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