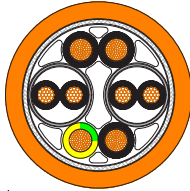


TKFF390-SERVOMOTOR POWER CABLE SHIELDED 0.6/1KV

TKFF390-SERIES CABLES FOR HIGH DYNAMIC APPLICATIONS PUR OIL RESISTANT, UL/CSA APPROVAL, HALOGEN FREE



CABLE SPECIFICATIONS



Conductor

CEI 20-29 Class 6 – IEC 60228 Class 6 – VDE 0295 Class 6



Insulation

Polyolefin (UL-CSA Standards)



Core identification

Black Numbered U/L1/C/L+, V/L2, W/L3/D/L-, Yellow/Green

Pairs Identification (where request)

One pair: black, white. Two pairs: Black Numbered 5÷6 and Black Numbered 7÷8



Pairs Shield (where request)

Tinned Copper Coverage \geq 85% according to EMC 89/336 ©



Overall Shield

Tinned Copper Coverage \geq 85% according to EMC 89/336 ©



Sheath

Polyurethane 11Y (UL-CSA Standards)



Outer jacket colour

Orange Ral 2003 according to DESINA colour chart page 163, other colours available upon request

TECHNICAL DATA



Operating voltage

1000V Cross-sectional area 1.0mm² (AWG18)



Test voltage

4000V a.c. Cross-sectional area 1.0mm² (AWG18)



Temperature range

-40°C ÷ +90°C



Bending Radius

5 x Ø (Static Installation)
7,5 x Ø (1,5 – 16mm² / Dynamic Installation)
10 x Ø (25 – 50mm² / Dynamic Installation)



Torsion

Please contact our technical support office



Maximum Speed

300 m/min



Maximum Acceleration

50 m/s²



Maximum Chain length

15 m (horizontal)



Flex life

5.000.000 cycles tested



Maximum Pulling Force

20N/mm² (dynamic use) or 50N/mm² (static use)

REFERENCE STANDARDS



Cable according to UL758, UL1581 and CSA C22.2 210.2

UL 90°C 1000V - Style 21209 - CSA AWM I/II A/B
90°C 1000V



According to NFPA 79-2018-Chapter 12.9



Flame Retardant

CEI 20-35 - EN50265 - IEC 60332-1 - UL VW-1 - CSA FT1



Halogen Free

CEI 20-37 - IEC 60754-1 - EN 50267-2-1



Hydrocarbons and Oil Resistance

UL 1581 - VDE 0472 part 803 A/B



Water Resistance

UL 1581 - IEC 60811



EC Directives Product compliant with Low Voltage Regulation 72/33/EEC



Directive EMC 2014/30/EU Electromagnetic Compatibility



TKFF390-SERVOMOTOR POWER CABLE SHIELDED 0.6/1KV

MAIN FEATURES

SERVO CABLES 90°C 1000V

TECNIKABEL CODE	DESCRIPTION	Ø NOMINAL (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
545TKFF39001	(4G1.5)H2	8.7	83	131
555TKFF39001	(4G2.5)H2	10.8	130	198
565TKFF39001	(4G4)H2	12.2	193	276
570TKFF39001	(4G6)H2	14	282	376
580TKFF39001	(4G10)H2	17.6	450	567
585TKFF39001	(4G16)H2	21.2	720	885
590TKFF39001	(4G25)H2	25	1003	1314
593TKFF39001	(4G35)H2	28.8	1514	2146
595TKFF39001	(4G50)H2	33.9	2167	2992

SERVO CABLE 90°C 1000V

TECNIKABEL CODE	DESCRIPTION	Ø NOMINAL (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
545TKFF39016	[4G1.5 + (2x1.5)H2]H2	11.6	149	221
555TKFF39009	[4G2.5 + (2x1.5)H2]H2	13	193	264
565TKFF39004	[4G4 + (2x1.5)H2]H2	14.7	255	315
570TKFF39002	[4G6 + (2x1.5)H2]H2	16.2	339	480
580TKFF39002	[4G10 + (2x1.5)H2]H2	19.7	526	774
585TKFF39002	[4G16 + (2x1.5)H2]H2	23.6	773	1043
590TKFF39002	[4G25 + (2x1.5)H2]H2	27.4	1190	1567
593TKFF39002	[4G35 + (2x1.5)H2]H2	31	1590	1978
595TKFF39002	[4G50 + (2x1.5)H2]H2	34.5	2240	2766

SERVO CABLES 90°C 1000V

TECNIKABEL CODE	DESCRIPTION	Ø NOMINAL (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
540TKFF39003	[4G1 + 2x(2x0.75)H2]H2	12.2	137	216
545TKFF39003	[4G1.5 + 2x(2x0.75)H2]H2	12.8	155	259
555TKFF39012	[4G2.5 + 2x(2x1)H2]H2	14.2	220	320
565TKFF39003	[4G4 + (2x1) + (2x1.5)H2]H2	16.3	293	439
570TKFF39003	[4G6 + (2x1) + (2x1.5)H2]H2	18	372	594
580TKFF39003	[4G10 + (2x1) + (2x1.5)H2]H2	21.8	570	845
585TKFF39003	[4G16 + 2x(2x1.5)H2]H2	25.5	830	1231
590TKFF39003	[4G25 + 2x(2x1.5)H2]H2	30	1213	1615
593TKFF39003	[4G35 + 2x(2x1.5)H2]H2	31.2	1598	2022