



USE OF CABLE

increased oil-resistant control and power supply cables for use in cable trays or cable channels with frequency converter technology. For medium mechanical stresses, for fixed or flexible installation where free movement is required without tensile stress and without forced guidance systems, in dry, damp and wet interiors (incl. water-oil mixtures). For outdoor use and also for direct burial. TC-ER (Tray Cable - Exposed Run) approval open wiring between cable tray and industrial machines/plants acc. NEC 336.10(7)



SPECIAL FEATURES

- increased resistance to oil by special PVC outer sheath, largely resistant to acids and bases
- max. perm. current carrying capacity at 30 ° C ambient temp.
- direct burial
- UV-res. acc. to EN 50396 & HD 605 A1; SUN RES acc. to UL 1581
- low operating capacity, low coupling resistance
- flexible at low temperatures up to -15 °C
- TC-ER (Tray Cable - Exposed Run)
- enables trouble-free operation of frequency converters through optimum EMC compliant shielding

REMARKS

- conform to RoHS, conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- LABS-/silicone-free (during production)
- conform to NFPA 79 2007 wiring norms and NEC 336.10 (7) acc. to NEC "National Electric Code"
- Special versions, other dimensions, cross-sections, core and jacket colours are manufactured on request.

PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	Acc. to IEC 60228 cl. 5
Core insulation:	XLPE
Core identification:	Acc. to DIN VDE 0293-308 coloured cores with GNYE
Stranding:	Stranded in layers
Shield3:	Alu-lamin. polyester foil, metal side outside, cover. 100% under copper braid tinned
Outer sheath:	PVC
Sheath colour:	Black, RAL 9005
Rated voltage:	Uo/U 0,6/1 kV (UL 1277: 600 V) - highest permissible operating voltage Single phase and three-phase: 700/1200 V, DC operation: 900/1800 V
Testing voltage:	6 kV
Conductor resistance:	Acc. to IEC 60228 cl. 5
Insulation resistance:	Min. 200 MΩ x km
Current-carrying-capacity:	Look at the table on the right side
Capacity:	Siehe Tabelle rechte Seite
Min. bending radius fixed:	≤ 12mm Ø: 5 x d; ≤ 20mm Ø: 7,5 x d; > 20mm Ø: 10 x d
Min. bending radius moved:	≤ 12mm Ø: 10 x d; ≤ 20mm Ø: 15 x d; > 20mm Ø: 20 x d
Operat. temp. fixed min/max:	-40 °C / +90 °C
Operat. temp. moved min/max:	-15 °C / +80 °C
Temp. at conductor:	+ 90 °C in operation; +250 °C in case of short-circuit
Burning behavior:	Self-extinguishing & flame-retardant acc. to IEC 60332-3-24 Cat. C, FT4/IEEE
Resistant to oil:	UL OIL RES I
Approvals:	UL/CSA: cULus 600 V / 90 °C - UL1277

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1004951	4 G 2,5 (AWG 14)	11,3	124,00	207,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004952	4 G 4 (AWG 12)	13,1	195,00	293,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004953	4 G 6 (AWG 10)	15,1	280,00	414,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004954	4 G 10 (AWG 8)	19,2	450,00	656,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004955	4 G 16 (AWG 6)	22,7	696,00	976,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004956	4 G 25 (AWG 4)	26,2	1058,00	1388,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1004957	4 G 35 (AWG 2)	29,1	1453,00	1811,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004958	4 G 50 (AWG 1)	34,5	2073,00	2544,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004959	4 G 70 (AWG 2/0)	37,8	2875,00	3425,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004960	4 G 95 (AWG 3/0)	44,5	3858,00	4563,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004961	4 G 120 (AWG 4/0)	48,3	4837,00	5569,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004962	4 G 150 (250 MCM)	52,1	6009,00	6761,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004963	4 G 185 (350 MCM)	56,4	7372,00	8112,00	black	V1: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black
1004964	3 X 10 (AWG 8) + 3 G 2,5 (AWG 14)	19,3	426,00	629,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004965	3 X 16 (AWG 6) + 3 G 2,5 (AWG 14)	20,7	607,00	818,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004966	3 X 25 (AWG 4) + 3 G 4 (AWG 12)	24,4	917,00	1186,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004967	3 X 35 (AWG 2) + 3 G 6 (AWG 10)	27,0	1279,00	1561,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004968	3 X 50 (AWG 1) + 3 G 10 (AWG 8)	32,0	1881,00	2256,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004969	3 X 70 (AWG 2/0) + 3 G 10 (AWG 8)	36,5	2474,00	2837,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004970	3 X 95 (AWG 3/0) + 3 G 16 (AWG 6)	39,8	3384,00	3779,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004971	3 X 120 (AWG 4/0) + 3 G 16 (AWG 6)	44,7	4127,00	4669,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004972	3 X 150 (250 MCM) + 3 G 25 (AWG 4)	48,2	5270,00	5812,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black
1004973	3 X 185 (350 MCM) + 3 G 35 (AWG 2)	52,1	6585,00	7082,00	black	V2: KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV 3+ UV DB - black