KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA

0,6/1kV (IEC), 600V (UL), EMC optimized, double shielded
K: flexible at low temp., UV-resistant, Direct burial, Temp. at conductor: max. 90 °C
UL/CSA, UL listed (TC-ER), NFPA 79 2007, CPR Eca

APPLICATION

Increased oil-resistant control and power supply cables for use in cable trays or cable ducts with frequency converter technology. Suitable for medium mechanical stresses and either fixed or flexible installation where free movement without tensile stress and without forced guidance systems is required. Applicable in dry, damp, and wet interiors, including environments with water-oil mixtures. Also suitable for outdoor use and direct burial. TC-ER (Tray Cable - Exposed Run) approval permits open wiring between cable trays and industrial machines or plants according to NEC 336.10(7).

SPECIAL FEATURES

- Increased oil resistance due to a specialized PVC outer sheath, which also offers substantial resistance to acids and alkalis.
- Oil resistance in accordance with UL OIL RES I; water resistance per UL wet approval at 75°C.
- UV-res.acc.to EN 50396 & HD 605 A1; SUN RES acc.to UL 1581
- Flexible at low temperatures up to -15 °C.
- Direct burial.
- Low operating capacity, low coupling resistance
- Approved by UL/CSA for use up to 600 V for parallel installation with other cables operating at the same voltage.
- TC-ER (Tray Cable - Exposed Run) certification.
- Enables trouble-free operation of frequency converters through optimum EMC compliance.

REMARKS

- Complies with RoHS and the 2014/35/EU Directive (Low Voltage Directive) CE.
- LABS-/silicone-free (during production)
- Max. perm. current carrying capacity at 30 ° C ambient temp.
- Complies with NFPA 79 2007 wiring standards and NEC 336.10 (7) Class 1, Div. 2 according to NEC (National Electric Code) Art. 336, 392, 501.

PRODUCT DETAILS

DESIGN

Conductor material	bare copper strand
Conductor class	acc. to IEC 60228 cl. 5, UL 83 standard
Core insulation	XLPE
Core identification	acc. to DIN VDE 0293-308 colored cores with GNYE
Stranding	stranded in layers
Overall shielding	alu-lamin. polyester foil, metal side outside, cover. 100% under copper braid tinned
Outer sheath material	PVC
Outer sheath color	black, RAL 9005

ELECTRICAL PROPERTIES

Rated voltage	0,6/1 kV (IEC), 600 V (UL 1277) - highest permissible operating voltage Single phase and three-phase: AC: 700/1.200 V, DC operation: 900/1.800 V
Testing voltage	6 kV
Conductor resistance	acc. to IEC 60228 cl. 5
Insulation resistance	min. 200 MΩ x km

MECHANICAL & DYNAMIC PROPERTIES

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

THERMAL PROPERTIES

Operat. temp. fixed min/max	-40 °C / +90 °C
Operat. temp. moved min/max	-5 °C / +90 °C
Temp. at conductor max.	+90 °C in operation; +250 °C in case of short-circuit

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FIRE BEHAVIOR

Burning behavior flame-retardant acc. to IEC 60332-1, IEC 60332-3-24 Cat C. and UL category FT4

CHEMICAL RESISTANCE & OTHER

Oil resistance UL 1277 (oil-resistant acc. to UL OIL RES I and water-resistant, UL wet approval 75 °C)
UV resistance acc. to EN 50396 and HD 605 A1; SUN RES acc. to UL 1581.

STANDARDS & APPROVALS

Standards UL 1277, NEC 336.10 (7) class1, Div. 2 in acc. to NEC Art. 336, 392, 501
Approvals UL/CSA: cULus 600 V / 90 °C - UL1277

ITEM OVERVIEW

KAWEFLEX® SERVO 2XSL(St)CYK-J VFD TRAY UL/CSA 0,6/1 kV EMV UV DB - black

Item no.	Dimension [n x mm²]	Conductor structure	Outer-Ø [mm] nom.	Outer-Ø. [inch] nom.	Weight [≈lbs/mft]	Curr. carr. capacity [A]
1004951	4 G 2,5 (AWG 14)	► AWG 14 (~ 46/AWG 30) - 2,5 mm²	11,3	0,445	139,1	80,0
1004952	4 G 4 (AWG 12)	► AWG 12 (~ 52/AWG 28) - 4 mm²	13,1	0,516	196,9	90,0
1004953	4 G 6 (AWG 10)	► AWG 10 (~ 78/AWG 28) - 6 mm²	15,1	0,595	278,2	110,0
1004954	4 G 10 (AWG 8)	► AWG 8 (~ 74/AWG 26) - 10 mm²	19,2	0,756	440,8	120,0
1004955	4 G 16 (AWG 6)	► AWG 6 (~ 115/AWG 26) - 16 mm²	22,7	0,894	655,9	130,0
1004956	4 G 25 (AWG 4)	► AWG 4 (~ 182/AWG 26) - 25 mm²	26,2	1,032	932,7	145,0
1004957	4 G 35 (AWG 2)	► AWG 2 (~ 259/AWG 26) - 35 mm²	29,1	1,147	1.217,0	150,0
1004958	4 G 50 (AWG 1)	► AWG 1 (~ 372/AWG 26) - 50 mm²	34,5	1,359	1.709,6	175,0
1004959	4 G 70 (AWG 2/0)	► AWG 2/0 (~ 550/AWG 26) - 70 mm²	37,8	1,489	2.301,6	180,0
1004960	4 G 95 (AWG 3/0)	► AWG 3/0 (~ 720/AWG 26) - 95 mm²	44,5	1,753	3.066,3	195,0
1004961	4 G 120 (AWG 4/0)	► AWG 4/0 (~ 930/AWG 26) - 120 mm²	48,3	1,903	3.742,4	215,0
1004962	4 G 150 (250 MCM)	► 250 kcmil (~ 1.140/AWG 26) - 150 mm²	52,1	2,053	4.543,4	230,0
1004963	4 G 185 (350 MCM)	► 350 kcmil (~ 1.480/AWG 26) - 185 mm²	56,4	2,222	5.451,3	240,0

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Item no.	Dimension [n x mm²]	Conductor structure	Outer-Ø [mm] nom.	Outer-Ø. [inch] nom.	Weight [≈lbs/mft]	Curr. carr. capacity [A]
1004964	3 X 10 (AWG 8) + 3 G 2,5 (AWG 14)	► AWG 8 (~ 74/AWG 26) + AWG 14 (~ 46/AWG 30)	19,3	0,760	422,7	120,0
1004965	3 X 16 (AWG 6) + 3 G 2,5 (AWG 14)	► AWG 6 (~ 115/AWG 26) + AWG 14 (~ 46/AWG 30)	20,7	0,816	549,7	130,0
1004966	3 X 25 (AWG 4) + 3 G 4 (AWG 12)	► AWG 4 (~ 182/AWG 26) + AWG 12 (~ 52/AWG 28)	24,4	0,961	797,0	145,0
1004967	3 X 35 (AWG 2) + 3 G 6 (AWG 10)	► AWG 2 (~ 259/AWG 26) + AWG 10 (~ 78/AWG 28)	27,0	1,064	1.049,0	150,0
1004968	3 X 50 (AWG 1) + 3 G 10 (AWG 8)	► AWG 1 (~ 372/AWG 26) + AWG 8 (~ 74/AWG 26)	32,0	1,261	1.516,0	175,0
1004969	3 X 70 (AWG 2/0) + 3 G 10 (AWG 8)	► AWG 2/0 (~ 550/AWG 26) + AWG 8 (~ 74/AWG 26)	36,5	1,438	1.906,5	180,0
1004970	3 X 95 (AWG 3/0) + 3 G 16 (AWG 6)	► AWG 3/0 (~ 720/AWG 26) + AWG 6 (~ 115/AWG 26)	39,8	1,568	2.539,5	195,0
1004971	3 X 120 (AWG 4/0) + 3 G 16 (AWG 6)	► AWG 4/0 (~ 930/AWG 26) + AWG 6 (~ 115/AWG 26)	44,7	1,761	3.137,6	215,0
1004972	3 X 150 (250 MCM) + 3 G 25 (AWG 4)	► 250 kcmil (~ 1.140/AWG 26) + AWG 4 (~ 182/AWG 26)	48,2	1,899	3.905,7	230,0
1004973	3 X 185 (350 MCM) + 3 G 35 (AWG 2)	► 350 kcmil (~ 1.480/AWG 26) + AWG 2 (~ 259/AWG 26)	52,1	2,053	4.759,1	240,0