

**SERIES
600S**

Multi-norm oil-resistant high flexible cables for servo motors

Dynamic application, shielded



Use

Shielded cables planned for mobile use on a cable holder chain, even with great length (continuous motion on Cartesian axis); they are used also on anthropomorphic robot for flexotorsion motion. They are normally used for equipments meant for the European (EC), North American and Canadian markets. The special polyurethane compound of the external jacket grants very good mechanical performance, abrasion resistance and a very good resistance to the most common industrial oils and fluids. The metric marked on the jacket allows an easier processing and installation of the cable.

Information. An additional UL certified cut-to-length service is carried out on request ("Processed Wire").

Technical data

Characteristics	Value/property
Conductor	Flexible copper strand, class 5/6
Insulation	TKblend®-L
Conductor distinction	Power: black numbered + yellow/green. Signal: 1 pair: white and black. >1 pair: black numbered
Fillers	Central or side fillers, if any
Pairs shield	Tinned copper braid, nom. coverage 80%
Pairs taping	Non-woven tape
Total taping	Synthetic non-hygroscopic tape
Shield	Tinned copper braid, nom. coverage 85%
Jacket	Halogen-free polyurethane compound, oil-resistant and flame-resistant, RAL 2003 orange Desina color. Metric marking.
Temperature range	-40°C, +80°C (dynamic); -50°C, +80°C (fixed)
Voltage rating	1000 V (UL-CSA), 600/1000 V (IEC)
Test voltage	2000/4000 V
Speed	220 m/min
Acceleration	10 m/s ²
Bending radius	5 x cable outer diameter
Standards of construction	Flame res.: IEC 60332-1, CEI 20-35, UL VW-1, CSA FT1 Oil res.: VDE 0472 (part 803/B), UL 1581 Halogen-free: IEC 60754-1 Other: CEI EN 60228, EN 60228, UL 758, CSA AWM I/II A/B, cURus AWM Style 20234
Standards of use	ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 20234

Marking

TEKIMA 0600S – CE (4G1,5+(2x1)) mm² 80°C 1000 V CEI 20-35 IEC 60332-1 – c(UR)us E314444 AWM Style 20234 (4x16+(2x18)) AWG 80°C 1000 V VW-1 Class I/II A/B FT1 – (prod.reference) = (metric) =

Coding and dimensions

Code	Num. conductors x Size [AWG]	Num. conductors x Size [mm ²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVFM0001_0600S_D2	(4x16+(2x18))	(4G1,5+(2x1))	11,3 (0.445)	194 (130)
CVFM0002_0600S_D2	(4x16+(2x16))	(4G1,5+(2x1,5))	11,7 (0.461)	211 (142)
CVFM0003_0600S_D2	(4x16+2x(2x19))	(4G1,5+2x(2x0,75))	12,3 (0.484)	226 (151)
CVFM0004_0600S_D2	(4x16+2x(2x18))	(4G1,5+2x(2x1))	12,8 (0.504)	239 (161)
CVFM0005_0600S_D2	(4x14+(2x18))	(4G2,5+(2x1))	12,3 (0.484)	243 (163)
CVFM0006_0600S_D2	(4x14+(2x16))	(4G2,5+(2x1,5))	12,7 (0.500)	261 (175)
CVFM0007_0600S_D2	(4x14+2x(2x18))	(4G2,5+2x(2x1))	14,2 (0.559)	315 (211)
CVFM0008_0600S_D2	(4x14+2x(2x16))	(4G2,5+2x(2x1,5))	14,2 (0.559)	356 (239)
CVFM0026_0600S_D2	(4x12+(2x18))	(4G4+(2x1))	14,0 (0.551)	331 (222)
CVFM0010_0600S_D2	(4x12+(2x16))	(4G4+(2x1,5))	14,4 (0.567)	354 (238)
CVFM0011_0600S_D2	(4x12+2x(2x18))	(4G4+2x(2x1))	15,7 (0.618)	394 (264)

Code	Num. conductors x Size [AWG]	Num. conductors x Size [mm ²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVFM0012_0600S_D2	(4x12+2x(2x16))	(4G4+2x(2x1,5))	16,5 (0.650)	441 (296)
CVFM0025_0600S_D2	(4x10+(2x18))	(4G6+(2x1))	15,7 (0.618)	436 (293)
CVFM0013_0600S_D2	(4x10+(2x16))	(4G6+(2x1,5))	16,3 (0.642)	468 (314)
CVFM0015_0600S_D2	(4x10+2x(2x16))	(4G6+2x(2x1,5))	18,3 (0.720)	551 (370)
CVFM0016_0600S_D2	(4x8+(2x18))	(4G10+(2x1))	18,4 (0.724)	631 (423)
CVFM0017_0600S_D2	(4x8+(2x16))	(4G10+(2x1,5))	18,7 (0.736)	661 (443)
CVFM0018_0600S_D2	(4x8+2x(2x16))	(4G10+2x(2x1,5))	20,7 (0.815)	747 (502)
CVFM0019_0600S_D2	(4x6+(2x18))	(4G16+(2x1))	22,2 (0.874)	918 (616)
CVFM0020_0600S_D2	(4x6+(2x16))	(4G16+(2x1,5))	22,5 (0.886)	953 (639)
CVFM0021_0600S_D2	(4x6+2x(2x16))	(4G16+2x(2x1,5))	23,5 (0.925)	1027 (689)
CVFM0022_0600S_D2	(4x4+(2x16))	(4G25+(2x1,5))	25,9 (1.020)	1352 (907)
CVFM0023_0600S_D2	(4x4+2x(2x16))	(4G25+2x(2x1,5))	27,0 (1.063)	1420 (953)
CVFM0024_0600S_D2	(4x2+(2x16))	(4G35+(2x1,5))	30,5 (1.201)	1860 (1248)
CVFM0027_0600S_D2	(4x2+2x(2x16))	(4G35+2x(2x1,5))	30,4 (1.197)	1901 (1275)
CVFM0028_0600S_D2	(4x1+2x(2x14))	(4G50+2x(2x2,5))	36,3 (1.429)	2582 (1733)

Code composition

CVFM □□□□ _0600S_ □□

Color	To be inserted
Orange Desina	D2

Construction

Identifier code of the special cable construction.