SERIES 160S

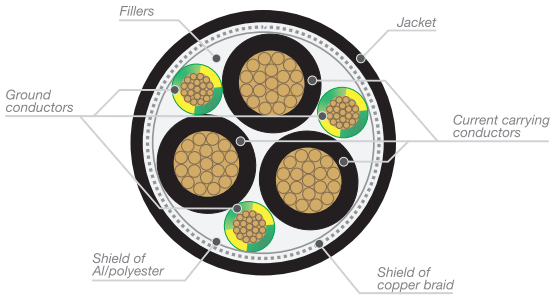
Low capacity VFD cables

Fixed application, shielded

Use

These are low capacitance servo motor (Variable Frequency Driver) cables planned for fixed application but also for occasional non-cyclical mobile uses. They are normally used wherever the potential for electromagnetic interference due to drives, frequency converter and motor is high. These cables are different than the traditional ones for their constructive peculiarities, including the double screen, the compounds used for the insulation and the constructive geometry. It is thanks to these and many other factors that this range of cables is able to ensure a low operational capacity, to limit overvoltage peaks which often cause damage to connected equipment and, not least, a consequent reduction of the losses. The metric marked on the jacket allows an easier processing and installation of the cable.

Information. An additional cut-to-length service is carried out on request.



Technical data

Characteristics	Value/property
Conductor	Flexible copper strand, class 5
Insulation	XLPE
Conductor distinction	Black numbered + yellow/green
Fillers	Central or side fillers, if any
Shield	Aluminum/polyester foil, coverage 100% + Tinned copper braid
Jacket	PVC compound, oil-resistant, black color. Metric marking.
Temperature range	-40°C (fixed); -5°C (not fixed), +90°C
Voltage rating	600/1000V
Test voltage	6000 V
Bending radius	6 x cable outer diameter (fixed) 20 x cable outer diameter (not fixed)
Standards of construction	Flame res.: IEC 60332-1-2 | UV res.: UNI EN ISO 4892-3 (gray), UNI EN ISO 4892-2 (black) | Oil res.: IEC 60811-404 | Other: CEI 20-29, DIN VDE 0295, DIN VDE 0293, Low Voltage Directive (LVD) 2014/35/EC

Marking

TEKIMA 0160S – CE (3x2,5+3G0,5) mm² 600/1000 V IEC 60332-1-2 – (prod. reference) = (metric) =

Coding and dimensions

Code	Num. conductors x size [mm²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVFM0001_0160S_GR	(3x1,5+3G0,25)	10,0 (0.394)	133 (89)
CVFM0002_0160S_GR	(3x2,5+3G0,5)	11,3 (0.445)	189 (127)
CVFM0003_0160S_GR	(3x4+3G0,75)	12,5 (0.492)	252 (169)
CVFM0004_0160S_GR	(3x6+3G1)	14,2 (0.559)	345 (232)
CVFM0005_0160S_GR	(3x10+3G1,5)	16,4 (0.646)	507 (341)
CVFM0006_0160S_GR	(3x16+3G2,5)	18,6 (0.732)	728 (489)
CVFM0007_0160S_GR	(3x25+3G4)	22,6 (0.890)	1109 (745)
CVFM0008_0160S_GR	(3x35+3G6)	25,6 (1.008)	1488 (1000)
CVFM0009_0160S_GR	(3x50+3G10)	30,2 (1.189)	2126 (1429)
CVFM0010_0160S_GR	(3x70+3G10)	34,4 (1.354)	2858 (1920)
CVFM0011_0160S_GR	(3x95+3G16)	39,8 (1.567)	3795 (2550)
CVFM0012_0160S_GR	(3x120+3G16)	43,0 (1.693)	4536 (3048)
CVFM0013_0160S_GR	(3x150+3G25)	47,8 (1.882)	5787 (3889)
CVFM0014_0160S_GR	(3x185+3G35)	53,3 (2.098)	7221 (4852)
CVFM0015_0160S_GR	(3x240+3G50)	60,9 (2.398)	9498 (6383)

Code composition

CVFM	□□□□	_0160S_	□□

Color	To be inserted
Black	NE

Construction
Identifier code of the special cable construction.