

Leitungen nach ausländischen Normen / Cables according to foreign standards FG16M16/FG160M16 0,6/1kV (früher FG7M1/FG70M1)

Steuer- und Stromkabel
Power and control cable



Verwendung:

Stromleitung zum Einsatz in feuchten und trockenen Räumen. Festverlegt einsetzbar im Freien, in Kabelkanälen etc. sowie direkt oder indirekt in der Erde. Verhindert bei lokaler Flammeinwirkung eine Branweiterleitung und erzeugt keine toxischen oder korrosiven Brandgase.

Halogenfrei.

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Aufbau:

- Kupfer blank, feindrähtig Klasse 5
- HEPR Isolation G16
- Thermoplastische Mischung als Außenmantel M16
- halogenfrei
- CPR Brandklasse Cca-s1b,d1,a1

Technische Daten:

Leiter Werkstoff	Kupfer, blank
Leiterklasse	Klasse 5
Aderisolationwerkstoff	HEPR in G16 Qualität
Aderkennung	1-adrig: schwarz 2-adrig: blau, braun 3-adrig: braun, schwarz, grau 4-adrig: blau, braun, schwarz, grau 5-adrig: blau, braun, schwarz, grau, schwarz 7 und mehr: weiß mit schwarzen Zahlen
Verseilung	
Außenmantelwerkstoff	Thermoplastischer Compound M16, halogenfrei
Mantelfarbe	grün
Nennspannung [V]	600 / 1000
Prüfspannung [V]	4000
Leiterwiderstand	
Isolationswiderstand	
Strombelastbarkeit	
kleinster Biegeradius fest [xd]	6 x d
kleinster Biegeradius bewegt [xd]	
Betriebstemp. fest min/max [C]	-15°C bis +90°C
Betriebstemp. bew. min/mac [C]	-15°C bis +90°C
Temperatur am Leiter max.	90°C
Brandverhalten	Flame-retardant: IEC 60332-1-2, IEC 60332-3-24 Smoke density: IEC 61034-2: light transmittance values > 70% Gases evolved during combustion: IEC 60754-1, IEC 60754-2, DIN EN 50267-2-2: pH > 4.3; conductivity < 100 uS/cm
Normen	- Standards: CEI 20-13 CEI 20-38 pqa IEC 60502-1 CEI UNEL 35322- 35328-35016 EN50575:2014+ EN 50575/A1:2016

Application:

Power and control use outdoor and indoor applications, even wet. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smokes, toxic and corrosive gases in case of fire.

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Construction:

- flexible conductor, class 5 copper made.
- Not fibrous and not hygroscopic filler
- HEPR insulation G16
- Thermoplastic sheath M16
- halogen-free
- CPR fire class Cca-s1b,d1,a1

Technical Data:

Conductor Material	Copper, bare
Conductor class	Class 5
core insulation	HEPR insulation in G7 quality
core identification	1-core: black 2-core: blue, brown 3-core: brown, black, grey 4-core: blue, brown, black, grey 5-core: blue, brown, black, grey, black 7 and more: white with black digital printing
stranding	
outer sheath	Thermoplastic sheath in M16 quality, halogen-free
sheath colour	green
rated voltage [V]	600 / 1000
testing voltage [V]	4000
conductor resistance	
insulation resistance	
current carrying capacity	
min. bending radius fixed [xd]	6 x d
min. bending radius moved [xd]	
working temp fixed min/max [C]	-15°C to +90°C
working temp moved min/mac [C]	-15°C to +90°C
temp at conductor max.	90°C
burning behaviour	Flame-retardant: IEC 60332-1-2, IEC 60332-3-24 Smoke density: IEC 61034-2: light transmittance values > 70% Gases evolved during combustion: IEC 60754-1, IEC 60754-2, DIN EN 50267-2-2:pH > 4.3; conductivity < 100 uS/cm
Approvals	- Standards: CEI 20-13 CEI 20-38 pqa IEC 60502-1 CEI UNEL 35322- 35328-35016 EN50575:2014+ EN 50575/A1:2016

Kabel / Cable

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
	1 x 10	10.90	0.00	14.80
	1 x 16	11.40	0.00	20.60
	1 x 25	13.20	0.00	29.50
	1 x 35	14.60	0.00	38.90
	1 x 50	16.40	0.00	54.20
	1 x 70	18.30	0.00	73.90
	1 x 95	20.40	0.00	96.40
	1 x 120	22.40	0.00	118.90
	1 x 150	24.80	0.00	148.40
	1 x 185	27.00	0.00	178.00
	1 x 240	30.20	0.00	231.90
	1 x 300	33.00	0.00	287.70
	1 x 400	37.70	0.00	382.20
	2 x 1.50	12.00	0.00	12.70
	2 x 2.50	13.00	0.00	15.80
	2 x 4	14.20	0.00	20.80
	2 x 6	15.40	0.00	25.80
	2 x 10	17.30	0.00	38.50
	2 x 16	19.40	0.00	56.50
	2 x 25	23.00	0.00	79.30
	2 x 35	25.70	0.00	103.70
	2 x 50	29.30	0.00	144.70
	2 x 70	33.10	0.00	222.40
	2 x 95	37.40	0.00	284.80
	2 x 120	41.50	0.00	359.90
	2 x 150	46.10	0.00	393.90
	3 x 1.50	12.50	0.00	14.30
	3 x 2.50	13.60	0.00	18.30
	3 x 4	14.90	0.00	24.40
	3 x 6	16.20	0.00	31.40
	3 x 10	18.20	0.00	49.30
	3 x 16	20.60	0.00	67.80
	3 x 25	24.50	0.00	97.70
	3 x 35	27.30	0.00	135.40
	3 x 35 + 1x25	29.20	0.00	158.90
	3 x 50	31.20	0.00	191.80

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
	3 x 50 + 1x25	32.40	0.00	211.60
	3 x 70	35.60	0.00	262.40
	3 x 70 + 1x35	37.00	0.00	297.50
	3 x 95	40.00	0.00	341.80
	3 x 95 + 1x50	42.00	0.00	397.10
	3 x 120	44.40	0.00	432.60
	3 x 120 + 1x70	46.90	0.00	521.90
	3 x 150	49.50	0.00	534.80
	3 x 150 + 1x95	52.50	0.00	651.10
	3 x 185	55.20	0.00	661.10
	3 x 185 + 1x95	57.30	0.00	766.90
	3 x 240	61.90	0.00	861.30
	3 x 240 + 1x150	65.50	0.00	1027.90
	4 x 1.50	13.40	0.00	16.70
	4 x 2.50	14.60	0.00	22.10
	4 x 4	16.00	0.00	29.30
	4 x 6	17.50	0.00	38.70
	4 x 10	19.80	0.00	59.90
	4 x 16	22.40	0.00	87.10
	4 x 25	26.80	0.00	123.90
	5 x 1.50	14.40	0.00	19.70
	5 x 2.50	15.60	0.00	26.20
	5 x 4	17.30	0.00	36.10
	5 x 6	18.90	0.00	47.60
	5 x 10	21.50	0.00	75.60
	5 x 16	24.40	0.00	111.90
	5 x 25	29.30	0.00	159.70
	5 x 35	32.80	0.00	217.50
	5 x 50	38.20	0.00	305.30
	5 x 70	44.58	0.00	437.40
	5 x 95	49.28	0.00	569.60
	7 x 1.50	15.40	0.00	26.10
	10 x 1.50	18.70	0.00	34.40
	10 x 2.50	20.80	0.00	46.30
	12 x 1.50	19.30	0.00	39.30
	12 x 2.50	21.30	0.00	53.70

Kontakt:

Kabel / Cable

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
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