

# MEDIUM VOLTAGE CABLES

## GAALFLEX® MEDIUM 3C+1G Type MV-105

Three-cores + 1 ground, 5-35 kV, 100% & 133% Insulation level



ELETTROTEK KABEL® GAALFLEX® MEDIUM 3C+1G Type MV-105



### Construction:

<b>Conductor:</b>	Compressed concentric stranded bare copper Class B acc. to ASTM B3 and B8
<b>Inner semi-conductive layer:</b>	semi-conductive extruded thermosetting polymeric layer
<b>Insulation:</b>	EPR compound
<b>Outer semi-conductive layer:</b>	semi-conductive extruded thermosetting polymeric layer
<b>Screen:</b>	red copper tape
<b>Earth conductor:</b>	Compressed concentric stranded bare copper Class B acc. to ASTM B3 and B8
<b>Fillers:</b>	in interstices
<b>Wrapping:</b>	binder tape
<b>Outer Sheath:</b>	black (RAL 9005), PVC compound

### Technical data:

<b>Nominal voltage:</b>	5 kV 100%, 133% 5/8 kV 133%, 100% 15 kV 100%, 133% 25 kV 100%, 133% 28 kV 100%, 133% 35 kV 100%, 133%
<b>Temperature range:</b>	
<i>operating:</i>	up to +105°C
<i>emergency overload:</i>	up to +140°C
<i>On short-circuit:</i>	up to +250°C

### Resistance:



**Self-extinguishing and flame retardant:**  
UL 1685 flame exposure test,  
and IEEE 1202/FT4 Flame test  
(70000 Btu/hr Vertical Tray Test)

### Features:

Suitable for Direct buried, aerial installation, cable trays (CT), troughs or raceways  
suitable for wet or dry locations  
Sunlight resistant  
on request CPE or Halogen-free compound outer sheath  
acc. to AIEC CS-8  
RoHS approval



### UL/ICEA standards:

UL standard 1072 and ICEA S-93-639 (NEMA WC 74) 5-46 kV  
ICEA S-97-682 when requested

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5 kV 100 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320271035A02	3 x 2 + 6	1,443 - 36,6	1447 - 2153
48320271035A01	3 x 1 + 4	1,529 - 38,8	1730 - 2575
48320271035A1C	3 x 1/0 + 4	1,616 - 41	1987 - 2957
48320271035A2C	3 x 2/0 + 4	1,765 - 44,8	2421 - 3602
48320271035A3C	3 x 3/0 + 3	1,873 - 47,6	2869 - 4269
48320271035A4C	3 x 4/0 + 3	1,992 - 50,6	3384 - 5036
48320271035A5C	3 x 250 + 2	2,123 - 53,9	3911 - 5819
48320271035A7C	3 x 350 + 2	2,349 - 59,7	5056 - 7524
48320271035AAC	3 x 500 + 1	2,619 - 66,5	6770 - 10074
48320271035AFC	3 x 750 + 1/0	3,077 - 78,2	9722 - 14466

5 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321271035A02	3 x 2 + 6	1,443 - 36,6	1447 - 2153
48321271035A01	3 x 1 + 4	1,529 - 38,8	1730 - 2575
48321271035A1C	3 x 1/0 + 4	1,616 - 41	1987 - 2957
48321271035A2C	3 x 2/0 + 4	1,765 - 44,8	2421 - 3602
48321271035A3C	3 x 3/0 + 3	1,873 - 47,6	2869 - 4269
48321271035A4C	3 x 4/0 + 3	1,992 - 50,6	3384 - 5036
48321271035A5C	3 x 250 + 2	2,123 - 53,9	3911 - 5819
48321271035A7C	3 x 350 + 2	2,349 - 59,7	5056 - 7524
48321271035AAC	3 x 500 + 1	2,619 - 66,5	6770 - 10074
48321271035AFC	3 x 750 + 1/0	3,077 - 78,2	9722 - 14466

5/8 kV 133 %/100%, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320P71035A06	3 x 6 + 6	1,329 - 33,8	1007 - 1498
48320P71035A04	3 x 4 + 6	1,427 - 36,2	1234 - 1836
48320P71035A02	3 x 2 + 6	1,55 - 39,4	1558 - 2319
48320P71035A01	3 x 1 + 4	1,637 - 41,6	1836 - 2732
48320P71035A1C	3 x 1/0 + 4	1,787 - 45,4	2208 - 3286
48320P71035A2C	3 x 2/0 + 4	1,663 - 42,22	2207 - 3285
48320P71035A3C	3 x 3/0 + 3	1,981 - 50,3	3006 - 4473
48320P71035A4C	3 x 4/0 + 3	2,1 - 53,3	3516 - 5232
48320P71035A5C	3 x 250 + 2	2,236 - 56,8	4055 - 6033
48320P71035A7C	3 x 350 + 2	2,457 - 62,4	5202 - 7740
48320P71035AAC	3 x 500 + 1	2,78 - 70,6	7058 - 10502
48320P71035AFC	3 x 750 + 1/0	3,185 - 80,9	9905 - 14738

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15 kV 100 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320T71035A02	3 x 2 + 6	1,89 - 48	2025 - 3013
48320T71035A01	3 x 1 + 4	1,95 - 49,5	2310 - 3438
48320T71035A1C	3 x 1/0 + 4	2,03 - 51,6	2600 - 3869
48320T71035A2C	3 x 2/0 + 4	2,12 - 53,8	2960 - 4405
48320T71035A3C	3 x 3/0 + 3	2,22 - 56,4	3430 - 5104
48320T71035A4C	3 x 4/0 + 3	2,33 - 59,2	3975 - 5915
48320T71035A5C	3 x 250 + 2	2,43 - 61,7	4490 - 6682
48320T71035A7C	3 x 350 + 2	2,64 - 67,1	5680 - 8452
48320T71035AAC	3 x 500 + 1	2,96 - 75,2	7925 - 11793
48320T71035AFC	3 x 750 + 1/0	3,33 - 84,6	10540 - 15684
48320T71035AJC	3 x 1000 + 2/0	3,82 - 97	13700 - 20386

15 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321T71035A02	3 x 2 + 6	2,057 - 52,2	2252 - 3350
48321T71035A01	3 x 1 + 4	2,143 - 54,4	2566 - 3818
48321T71035A1C	3 x 1/0 + 4	2,229 - 56,6	2881 - 4286
48321T71035A2C	3 x 2/0 + 4	2,316 - 58,8	3244 - 4827
48320T71035A3C	3 x 3/0 + 3	2,424 - 61,6	3724 - 5541
48321T71035A4C	3 x 4/0 + 3	2,543 - 64,6	4283 - 6373
48321T71035A5C	3 x 250 + 3	2,673 - 67,9	4807 - 7152
48321T71035A7C	3 x 350 + 2	2,953 - 75	6232 - 9273
48321T71035AAC	3 x 500 + 1	3,223 - 81,9	8056 - 11987
48321T71035AFC	3 x 750 + 1/0	3,628 - 92,2	11025 - 16405

25 kV 100 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320W71035A01	3 x 1 + 4	2,28 - 57,9	2800 - 5167
48320W71035A1C	3 x 1/0 + 4	2,36 - 59,9	3110 - 4628
48320W71035A2C	3 x 2/0 + 4	2,44 - 62	3485 - 5186
48320W71035A3C	3 x 3/0 + 3	2,55 - 64,8	3980 - 5923
48320W71035A4C	3 x 4/0 + 3	2,66 - 67,6	4545 - 6763
48320W71035A5C	3 x 250 + 2	2,76 - 70,1	5080 - 7760
48320W71035A7C	3 x 350 + 2	3,02 - 77,7	6485 - 9650
48320W71035AAC	3 x 500 + 1	3,28 - 83,3	8335 - 12403
48320W71035AFC	3 x 750 + 1/0	3,65 - 92,7	11325 - 16853
48320W71035AJC	3 x 1000 + 2/0	4,15 - 105,4	14590 - 21711

25 kV 133 % Insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321W71035A01	3 x 1 + 4	2,56 - 65	3280 - 4881
48321W71035A1C	3 x 1/0 + 4	2,64 - 1	3605 - 5365
48321W71035A2C	3 x 2/0 + 4	2,73 - 69,3	3995 - 5945
48321W71035A3C	3 x 3/0 + 3	2,83 - 71,9	4510 - 6711
48321W71035A4C	3 x 4/0 + 3	3 - 76,2	5265 - 7835
48321W71035A5C	3 x 250 + 2	3,1 - 78,7	5825 - 8668
48321W71035A7C	3 x 350 + 2	3,3 - 83,8	7105 - 10753
48321W71035AAC	3 x 500 + 1	3,56 - 90,4	9005 - 13400
48321W71035AFC	3 x 750 + 1/0	3,93 - 99,8	12060 - 17946
48321W71035AJC	3 x 1000 + 2/0	4,43 - 112,5	15415 - 22939,1

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28 kV 100 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320X71035A01	3 x 1 + 4	2,36 - 59,9	2945 - 4382
48320X71035A1C	3 x 1/0 + 4	2,44 - 62	3260 - 4851
48320X71035A2C	3 x 2/0 + 4	2,53 - 64,3	3635 - 5409
48320X71035A3C	3 x 3/0 + 3	2,63 - 66,8	4140 - 6161
48320X71035A4C	3 x 4/0 + 3	2,75 - 69,8	4710 - 7009
48320X71035A5C	3 x 250 + 2	2,84 - 72,1	5250 - 7812
48320X71035A7C	3 x 350 + 2	3,11 - 79	6670 - 9926
48320X71035AAC	3 x 500 + 1	3,37 - 85,6	8535 - 12701
48320X71035AFC	3 x 750 + 1/0	3,74 - 95	11545 - 17180
48320X71035AJC	3 x 1000 + 2/0	4,23 - 107,4	14835 - 22076

28 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321X71035A01	3 x 1 + 4	2,67 - 67,8	3480 - 5179
48321X71035A1C	3 x 1/0 + 4	2,75 - 69,8	3810 - 5670
48321X71035A2C	3 x 2/0 + 4	2,83 - 71,9	4205 - 6257
48321X71035A3C	3 x 3/0 + 3	3 - 76,2	4895 - 7284
48321X71035A4C	3 x 4/0 + 3	3,11 - 79	5495 - 8177
48321X71035A5C	3 x 250 + 2	3,2 - 81,3	6065 - 9025
48321X71035A7C	3 x 350 + 2	3,41 - 86,6	7360 - 10952
48321X71035AAC	3 x 500 + 1	3,67 - 93,2	9275 - 14472
48321X71035AFC	3 x 750 + 1/0	4,04 - 102,6	12355 - 18385

35 kV 100 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320Y71035A1C	3 x 1/0 + 4	2,75 - 69,8	3810 - 5670
48320Y71035A2C	3 x 2/0 + 4	2,83 - 71,9	4205 - 6257
48320Y71035A3C	3 x 3/0 + 3	3 - 76,2	4895 - 7284
48320Y71035A4C	3 x 4/0 + 3	3,11 - 79	5495 - 8177
48320Y71035A5C	3 x 250 + 2	3,2 - 81,3	6065 - 9025
48320Y71035A7C	3 x 350 + 2	3,41 - 86,6	7360 - 10952
48320Y71035AAC	3 x 500 + 1	3,67 - 93,2	9275 - 14472
48320Y71035AFC	3 x 750 + 1/0	4,04 - 102,6	12355 - 18385

35 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321Y71035A1C	3 x 1/0 + 4	3,13 - 79,5	4645 - 6912
48321Y71035A2C	3 x 2/0 + 4	3,22 - 81,8	5065 - 7537
48321Y71035A3C	3 x 3/0 + 3	3,32 - 84,3	5610 - 8348
48321Y71035A4C	3 x 4/0 + 3	3,43 - 87,1	6235 - 9728
48321Y71035A5C	3 x 250 + 2	3,53 - 89,7	6820 - 10149
48321Y71035A7C	3 x 350 + 2	3,74 - 96,1	8160 - 12143
48321Y71035AAC	3 x 500 + 1	4 - 101,6	10130 - 15074
48321Y71035AFC	3 x 750 + 1/0	4,37 - 111	13290 - 19777

Other dimensions and colors available on request.