

MEDIUM VOLTAGE CABLES

GAALFLEX® MEDIUM 1C Type MV-105

single-core, EPR/PVC, 5-35 kV, 100% & 133% Insulation level



ELETTROTEK KABEL® GAALFLEX® MEDIUM 1C Type MV-105

Construction:

Conductor:	compacted concentric soft drawn bare copper Class B acc. to ASTM
Inner semi-conductive layer:	semi-conductive extruded thermosetting polymeric layer
Insulation:	special rubber EPR compound
Outer semi-conductive layer:	semi-conductive extruded thermosetting polymeric layer
Screen:	red copper tape
Outer Sheath:	black (RAL 9005), special PVC compound

Resistance:



Self-extinguishing and flame retardant:
IEEE 383 flame test: (1/0 AWG and larger)
IEEE 1202 flame test: (250 MCM and larger)

Technical data:

Nominal voltage:	5 kV 100%, 133% 8 kV 100%, 133% 15 kV 100%, 133% 25 kV 100%, 133% 35 kV 100%, 133%
Temperature range:	
<i>operating:</i>	up to +105°C
<i>emergency overload:</i>	up to +140°C
<i>On short-circuit:</i>	up to +250°C
Min. bending radius:	12 x d

Features:

Suitable for Direct buried, aerial installation, cable trays (CT)*, troughs or raceways
*(CT use 1/0 AWG and larger)

suitable for wet or dry locations

sunlight resistant

on request compressed or compacted stranded conductors

on request compacted concentric stranded aluminium conductor Class B acc. to ASTM

on request LLDPE*, CPE or Halogen-free insulation
*(UL does not recognize LLDPE AS MV.105)

on request red copper wires screen

on request oil resistant outer sheath

on request low coefficient PVC outer sheath

on request acc. to CSA C68.10 (FT4 250 MCM and larger, -40°C cold impact and cold bend)

acc. to AIEC CS-8

RoHS approval



UL/ICEA standards:

UL 1072
ICEA S-97-682
ICEA S-93-639

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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
4832027L010A04	1 x 4	0,63-16	316-470
4832027L010A02	1 x 2	0,68-17,3	414-616
4832027L010A01	1 x 1	0,72-18,3	480-714
4832027L010A1C	1x 1/0	0,76-19,3	566-842
4832027L010A2C	1x 2/0	0,79-20,1	665-990
4832027L010A3C	1 x 3/0	0,84-21,3	792-933
4832027L010A4C	1 x 4/0	0,93-23,6	974-1449
4832027L010A5C	1 x 250	0,98-24,9	1116-1661
4832027L010A7C	1 x 350	1,08-27,4	1468-2185
4832027L010AAC	1 x 500	1,2-30,5	1982-2949
4832027L010AFC	1 x 750	1,38-35,1	2861-4257
4832027L010AJC	1 x 1000	1,53-38,9	3676-5470

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
48320P7L010A04	1 x 4	0,68-17,3	347-516
48320P7L010A02	1 x 2	0,73-18,6	424-631
48320P7L010A01	1 x 1	0,77-19,6	514-765
48320P7L010A1C	1x 1/0	0,81-20,6	577-859
48320P7L010A2C	1x 2/0	0,84-21,3	675-1004
48320P7L010A3C	1 x 3/0	0,92-23,4	857-1275
48320P7L010A4C	1 x 4/0	0,97-24,6	982-1461
48320P7L010A5C	1 x 250	1,02-20,5	1126-1676
48320P7L010A7C	1 x 350	1,12-28,4	1475-2195
48320P7L010AAC	1 x 500	1,24-31,5	1988-2958
48320P7L010AFC	1 x 750	1,43-36,3	2863-4260
48320P7L010AJC	1 x 1000	1,59-40,4	3681-5478

8 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321P7L010A02	1 x 2	0,8-20,3	489-728
48321P7L010A01	1 x 1	0,82-20,8	549-817
48321P7L010A1C	1x 1/0	0,86-21,8	638-949
48321P7L010A2C	1x 2/0	0,93-23,6	767-1141
48321P7L010A3C	1 x 3/0	0,97-24,6	899-1338
48321P7L010A4C	1 x 4/0	1,03-26,2	1060-1577
48321P7L010A5C	1 x 250	1,08-27,4	1206-1795
48321P7L010A7C	1 x 350	1,18-30	1566-2330
48321P7L010AAC	1 x 500	1,3-33	2089-3109
48321P7L010AFC	1 x 750	1,48-37,6	2983-4439
48321P7L010AJC	1 x 1000	1,6-40,6	3810-5670

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GAALFLEX® MEDIUM IC Type MV-105

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ELETTROTEK KABEL® GAALFLEX® MEDIUM IC Type MV-105

15 kV 100 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320T7L010A02	1 x 2	0,84-21,3	525-781
48320T7L010A01	1 x 1	0,91-23,1	621-924
48320T7L010A1C	1x 1/0	0,95-24,1	713-1061
48320T7L010A2C	1x 2/0	0,98-24,9	818-1217
48320T7L010A3C	1 x 3/0	1,03-26,2	952-1417
48320T7L010A4C	1 x 4/0	1,09-27,7	1115-1659
48320T7L010A5C	1 x 250	1,14-29	1264-1881
48320T7L010A7C	1 x 350	1,24-31,5	1629-2424
48320T7L010AAC	1 x 500	1,36-34,5	2157-3210
48320T7L010AFC	1 x 750	1,54-39,1	3060-4554
48320T7L010AJC	1 x 1000	1,69-42,9	3894-5929

15 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321T7L010A02	1 x 2	0,96-24,4	590-878
48321T7L010A01	1 x 1	1-25,4	696-1036
48321T7L010A1C	1x 1/0	1,04-26,4	762-1134
48321T7L010A2C	1x 2/0	1,07-27,2	863-1284
48321T7L010A3C	1 x 3/0	1,12-28,4	1036-1542
48321T7L010A4C	1 x 4/0	1,17-29,7	1161-1728
48321T7L010A5C	1 x 250	1,22-31	1314-1955
48321T7L010A7C	1 x 350	1,32-33,5	1676-2494
48321T7L010AAC	1 x 500	1,44-36,6	2204-3280
48321T7L010AFC	1 x 750	1,63-41,4	3110-4628
48321T7L010AJC	1 x 1000	1,84-46,7	4056-6036

25 kV 100 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320W7L010A01	1 x 1	1,07-27,2	760-1131
48320W7L010A1C	1x 1/0	1,11-28,2	857-1275
48320W7L010A2C	1x 2/0	1,14-29	967-1439
48320W7L010A3C	1 x 3/0	1,19-30,2	1106-1646
48320W7L010A4C	1 x 4/0	1,25-31,7	1277-1900
48320W7L010A5C	1 x 250	1,3-33	1432-2131
48320W7L010A7C	1 x 350	1,4-35,6	1809-2962
48320W7L010AAC	1 x 500	1,52-38,6	2353-3501
48320W7L010AFC	1 x 750	1,76-44,7	3379-5028
48320W7L010AJC	1 x 1000	1,91-48,5	4242-6313

25 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321W7L010A01	1 x 1	1,2-30,5	894-1330
48321W7L010A1C	1x 1/0	1,24-31,5	994-1479
48321W7L010A2C	1x 2/0	1,28-32,5	1109-1650
48321W7L010A3C	1 x 3/0	1,33-33,8	1254-1866
48321W7L010A4C	1 x 4/0	1,38-35,1	1430-2128
48321W7L010A5C	1 x 250	1,43-36,3	1591-2368
48321W7L010A7C	1 x 350	1,53-38,9	1979-2945
48321W7L010AAC	1 x 500	1,65-41,9	2535-3772
48321W7L010AFC	1 x 750	1,9-48,3	3588-5339
48321W7L010AJC	1 x 1000	2,05-52,1	4468-6649

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35 kV 100 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48320Y7L010A1C	1x 1/0	1,29-32,8	1011-1504
48320Y7L010A2C	1x 2/0	1,33-33,8	1165-1734
48320Y7L010A3C	1 x 3/0	1,38-35,1	1312-1952
48320Y7L010A4C	1 x 4/0	1,43-36,3	1443-2147
48320Y7L010A5C	1 x 250	1,48-37,6	1653-2460
48320Y7L010A7C	1 x 350	1,58-40,1	1989-2960
48320Y7L010AAC	1 x 500	1,7-43,2	2542-3783
48320Y7L010AFC	1 x 750	1,95-49,5	3670-5461
48320Y7L010AJC	1 x 1000	2,1-53,3	4555-6778

35 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48321Y7L010A1C	1x 1/0	1,43-36,3	1214-1807
48321Y7L010A2C	1x 2/0	1,47-37,3	1279-1903
48321Y7L010A3C	1 x 3/0	1,52-38,6	1428-2125
48321Y7L010A4C	1 x 4/0	1,57-39,9	1669-2484
48321Y7L010A5C	1 x 250	1,62-41,1	1837-2734
48321Y7L010A7C	1 x 350	1,78-45,2	2342-3485
48321Y7L010AAC	1 x 500	1,9-48,3	2924-4351
48321Y7L010AFC	1 x 750	2,09-53,1	3906-5813
48321Y7L010AJC	1 x 1000	2,24-56,9	4808-7155

Other dimensions and colors available on request.