

# MEDIUM VOLTAGE CABLES

## GAALFLEX® MEDIUM 3C+1G Type MV-105 MC AIA

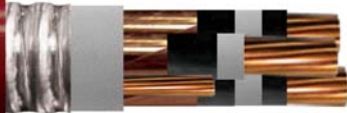
Three-cores + 1 ground, 5 kV 133% / 8 kV 100% Insulation level and 15 kV 133% Insulation level



GAALFLEX® MEDIUM 3C+1G 5/8 kV Type MV-105 MC AIA



GAALFLEX® MEDIUM 3C+1G 15 kV Type MV-105 MC AIA



### Construction:

<b>Conductor:</b>	Compressed concentric stranded bare copper Class B acc. to ASTM 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>Cores color:</b>	color tapes in each phase (standard: black, red, blue)
<b>Screen:</b>	red copper tape
<b>Earth conductor:</b>	compressed concentric stranded bare copper Class B acc. to ASTM B8
<b>Fillers:</b>	non-hygroscopic fillers, (if necessary)
<b>Wrapping:</b>	binder tape
<b>Armouring:</b>	aluminium interlocked armour (AIA)
<b>Outer Sheath:</b>	Yellow (simila RAL 1021) or Red (similar RAL 3000) , PVC compound

### Resistance:



#### Self-extinguishing and flame retardant:

UL 1685 flame exposure test, and IEEE 1202/FT4 Flame test (70000 Btu/hr Vertical Tray Test)

### Technical data:

<b>Nominal voltage:</b>	5 kV 133%, 8 kV 100% 15 KV 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

### Features:

These cables are suitable for use in industrial power circuits suitable for direct buried, in conduit, duct, free air, cable trays (CT) and troughs or raceways and outdoor use  
suitable for wet or dry locations  
approved for Class I, Div. 2 industrial hazardous locations acc. to NEC  
suitable for 105°C wet or dry locations  
sunlight resistance  
excellent corona resistance  
high dielectric strength  
low moisture absorption  
low dielectric loss  
meets cold bend test at -35°C  
on request with CCW armouring  
on request with 3 Earth conductors construction

### Standards:

UL standard 1072 and ICEA S-93-639 (NEMA WC 74)  
acc. to ICEA S-97-68  
acc. to AIEC CS-8  
acc. to ASTM B8  
acc. to NEC  
acc. to EPA 40 CFR, part 261  
OSHA approval

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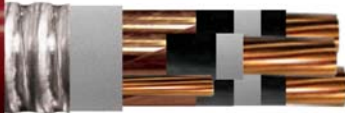
Three-cores + 1 ground, 5 kV 133% / 8 kV 100% Insulation level and 15 kV 133% Insulation level



GAALFLEX® MEDIUM 3C+1G 5/8 kV Type MV-105 MC AIA



GAALFLEX® MEDIUM 3C+1G 15 kV Type MV-105 MC AIA



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

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48315PYT035A02	3 x 2 + 6	1,77 - 44,9	1819 - 2708
48315PYT035A1C	3 x 1/0 + 4	1,92 - 48,8	2364 - 3520
48315PYT035A2C	3 x 2/0 + 4	2 - 50,8	2696 - 4014
48315PYT035A4C	3 x 4/0 + 3	2,22 - 56,5	3687 - 5490
48315PYT035A5C	3 x 250 + 2	2,34 - 59,3	4165 - 6202
48315PYT035A7C	3 x 350 + 2	2,57 - 65,4	5436 - 8094
48315PYT035AAC	3 x 500 + 1	2,84 - 72	7170 - 10676

15 kV 133 %, insulation level

Part no.	Cross section AWG/MCM	Outer Ø Inch/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
48315TRT035A02	3 x 2 + 6	2,21 - 56,1	2416 - 3597
48315TRT035A1C	3 x 1/0 + 4	2,35 - 59,8	2997 - 4463
48315TRT035A2C	3 x 2/0 + 4	2,44 - 62	3371 - 5019
48315TRT035A4C	3 x 4/0 + 3	2,7 - 68,5	4502 - 6703
48315TRT035A5C	3 x 250 + 2	2,81 - 71,3	5005 - 7452
48315TRT035A7C	3 x 350 + 2	3,01 - 76,6	6252 - 9309
48315TRT035AAC	3 x 500 + 1	3,3 - 83,7	8094 - 12047