



# MV-105 MC-HL CABLES 15kV

UL 1072, IEEE 1202, AEIC CS8, ICEA S-94-649, ICEA S-93-639

Class 1 DIV 1 three conductor continuous corrugated welded armor

## CABLE DESIGN:

Three stranded copper conductors, extruded semiconducting shield, EPR insulation, extruded semiconducting insulation shield, phase identification strips, copper tape shield with overlap applied over individual conductors, stranded copper grounding conductors, fillers, binder tape over the core, continuous corrugated aluminum sheath, PVC jacket.



## CONSTRUCTION

Conductor	Class B compressed stranded bare copper per ASTM B3 and ASTM B8
Conductor screen	Extruded layer of semi-conducting compound over the conductor per UL 1072
Insulation	Extruded layer of ethylene-propylene rubber (EPR) per UL 1072
Insulation screen	Extruded layer of semi-conducting compound applied by triple extrusion process over the insulation. Meets electrical and physical requirements of UL 1072
Shield	Uncoated 5 mil copper tape helically applied with 20% overlap Phase identification: type id ribbon longitudinally applied under shield
Grounding conductor	Three or one uncoated copper grounding conductors per NEC/UL tables
Assembly	Three power conductors cabled with grounding conductors and fillers in the interstices, binder tape applied overall
Metallic sheath	Continuously corrugated welded aluminum armor
Jacket	Protective sunlight and ozone resistant PVC jacket per UL 1072 Red color for 15kV

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## CHARACTERISTICS

Conductor cross-sectional:	2AWG – 500 MCM	
Operating conductor temperature	Continuous operating temperature:	105°C
	Emergency rating:	140°C
Short circuit conductor temperature	Initial :	+105°C
	Final:	+250°C
Lowest temperature of cable installation:	-20°C	

## Construction 15 kV (133% Insulation Level):

Size	Conductor		Grounding Conductor		Insulation Thickness	Diameter over Insulation	Overall Diameter Core	Overall Diameter Armor	Jacket Thickness	Approx Overall Diameter Cable	Approx Net. Weight	Standard Length	Reel Size (height)
	Construction	No. of Wires	No. x	AWG									
AWG kcmil			No. x	AWG	mils	inches	inches	inches	inches	inches	lbs/1000ft	ft	mm / inches
2	compressed	7	3 1	10 6	220	0.76	0.85	2.22	0.06	2.35	2,690	2,550	2400 / 95
1/0	compressed	19	3	8	220	0.84	0.93	2.42	0.08	2.57	3,440	1,960	2400 / 95
2/0	compressed	19	3 1	8 4	220	0.89	0.97	2.52	0.08	2.68	3,800	1,870	2400 / 95
250	compressed	37	3	6	220	1.03	1.12	2.87	0.08	3.03	5,480	1,340	2400 / 95
500	compressed	37	3 1	5 1	220	1.28	1.39	3.53	0.09	3.71	8,880	850	2400 / 95

### Approvals:

UL E231073

### Sample Print Legend:

TF CABLE UL E231073 MC-HL OR MV-105 [#AWG or Kcmil] CU 15kV SHLD 220 MILS EPR 133% INS LEVEL 3x[#AWG] CU GRD UL 1072 SUNLIGHT RESISTANT DIR BUR FT-4 (-40°C) FOR CT USE IEEE 1202 [YEAR] [SEQUENTIAL FOOTAGE MARKINGS]

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