

**CONTINUOUS CORRUGATED ARMOR 5KV 133% / 8KV 100%  
3 CONDUCTOR WITH 3 GROUNDS SUITABLE FOR VFD USE , SHIELDED,  
EPR INSULATION, ALUMINUM ARMOR, YELLOW PVC JACKET  
TYPE MC-HL, MV-105, CT USE, SUN RESISTANT, DIRECT BURIAL, 105DEG C**

**CONSTRUCTION:**

**CONDUCTOR** CLASS B STRANDED BARE COPPER.

**STRAND SHIELD** EXTRUDED NONMETALLIC SEMI-CONDUCTING LAYER.

**INSULATION** THERMOSETTING ETHYLENE PROPYLENE RUBBER (EPR).

**INSULATION SHIELD** SEMI- CONDUCTING LAYER DIRECTLY OVER INSULATION.

**METALLIC TAPE SHIELD** LAPPER COPPER TAPE SHIELD APPLIED DIRECTLY OVER EXTRUDED INSULATION SHIELD.

**CONDUCTOR IDENTIFICATION** PHASE CODED WITH SUITABLE MARKING ON EACH CONDUCTOR.

**CONDUCTOR ASSEMBLY** CONDUCTORS ARE CABLED TOGETHER WITH STRANDED COPPER GROUND IN EACH OF THE INTERSTICES, SUITABLE FILLERS WHERE NECESSARY, AND OVERALL CABLE BINDER TAPE.

**ARMOR** CONTINUOUS CORRUGATED ALUMINUM ARMOR.

**OUTER JACKET** SUNLIGHT RESISTANT, FLAME RETARDANT YELLOW PVC APPLIED OVER ARMOR.

Charlotte Wire Part#	Size AWG	Insulation Thickness (in.)	Ground Size (AWG)	Armor Diameter (in.)	PVC Jkt Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)	Amps *
CW08651	6	.115"	3 - #10	1.53"	.060"	1.65"	1250	88
CW08652	4	.115"	3 - #10	1.65"	.060"	1.77"	1500	115
CW08653	2	.115"	3 - #10	1.78"	.060"	1.90"	1830	154
CW08654	1	.115"	3 - #8	1.85"	.060"	1.97"	2130	180
CW08655	1/0	.115"	3 - #8	1.97"	.060"	2.09"	2420	205
CW08656	2/0	.115"	3 - #8	2.08"	.060"	2.20"	2800	240
CW08657	3/0	.115"	3 - #7	2.22"	.060"	2.34"	3280	280
CW08658	4/0	.115"	3 - #7	2.34"	.075"	2.49"	3860	320
CW08659	250MCM	.115"	3 - #7	2.50"	.075"	2.65"	4370	355
CW08660	350MCM	.115"	3 - #6	2.77"	.075"	2.92"	5650	440
CW08661	500MCM	.115"	3 - #5	3.14"	.085"	3.31"	7650	545
CW08662	750MCM	.115"	3 - #4	3.66"	.085"	3.83"	10640	685
CW08663	1000MCM	.115"	3 - #4	4.26"	.085"	4.43"	13750	790

\*Ampacity based on 3 conductor isolated in air with 105Deg C conductor temperature and 40Deg C ambient temperature per NEC Table 310.60(C)(71).

**APPLICATION:**

Suitable for power circuits rated up to 5000Volts 133% Insulation Level (ungrounded) or 8000Volts 100% Insulation Level (grounded) in industrial, commercial, and utility locations. Continuous corrugated armor provides excellent mechanical resistance and can also be used as an electrical shield when adequate grounding is maintained. 3 symmetrical grounds and continuous armor provide for use in VFD applications. Per NEC Article 330, may be used 1) indoors or outdoors, 2) raceways and cable tray systems including ladders, troughs, and channels, 3) aerial cable on a messenger, and 4) in hazardous locations per NEC Class 1 Division 2, Class II Division 2, and Class III Division 1 and 2.

**STANDARDS:**

Passes UL & IEEE 70,000BTU Flame Test.  
ICEA S-93-639/NEMA WC74 for Shielded Power Cables.  
UL 1072 for Medium Voltage Cables.  
NEC Article 330 for Metal Clad Cable.  
NEC Article 392 for Tray Use.