SERIES 8200

Metal-Clad Cable, MC-HL

Armored and unshielded

Use

UL Listed armored and unshielded cables intended for the uses specified by article 330 of ANSI/NFPA 70 “National Electrical Code” (NEC) and suitable for use in Class I, Division 1, Hazardous Locations. These armored cables are manufactured specifically to meet the particular industrial requirements, where durability, impact and corrosion resistance, but also flexibility and easy employment are needed.

Information. Please ask the sales department for the possibility of an additional UL certified cut-to-size service ("Processed Wire").

Technical data

According to NEC, MC-HL cables can be used as follows[1]:

(1) For services, feeders and branch circuits.
(2) For power, lighting, control and signal circuits.
(3) Indoors or outdoors.
(4) Exposed or concealed.
(5) To be direct buried where identified for such use.
(6) In cable tray where identified for such use.
(7) In any raceways.
(8) As aerial cable on a messenger.
(9) In hazardous (classified) locations as permitted.
(10) In dry locations and embedded in plaster finish on brick or other masonry except in damp or wet locations.
(11) In wet locations where any of the following conditions are met:
a. The metallic covering is impervious to moisture.
b. A lead sheath or moisture-impervious jacket is provided under the metal covering.
c. The insulated conductors under the metallic covering are listed for use in wet locations.
(12) Where single-conductor cables are used, all phase conductors and, where used, the neutral conductor shall be grouped together to minimize induced voltage on the sheath.

Characteristics	Value/property
Conductor	Copper strand
Insulation	XLPE
Conductor distinction	ICEA Method 1, table E-2 (see appendix) for sizes 14 AWG ÷ 10 AWG ICEA Method 4 for sizes 8 AWG ÷ 4/0 AWG
Ground wire	Bare copper
Taping	Synthetic material
Armor	Aluminium corrugated armor
Jacket	PVC
Temperature range	+90°C
Voltage rating	600 V
Bending radius	12 x cable outer diameter
Construction reference standards	UL approvals: (UL) Type MC-HL (Hazardous Locations), Class 1, Div. 1 NEC Art. 330, 501; UL 1569, UL 2225
Standards of use	NFPA 70 (NEC)

Coding and dimensions

Code	Number of conductors*	Size [AWG]	Ground wire size [AWG]	Cord diameter [mm (inch)]	Armour diameter [mm (inch)]	Jacket diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CV03XW14_82000_NE	3	14	3x18	9,9 (0.390)	14,1 (0.555)	16,8 (0.661)	298 (200)
CV03XW12_82000_NE	3	12	3x16	8,6 (0.340)	14,1 (0.555)	16,8 (0.661)	336 (226)
CV03XW10_82000_NE	3	10	3x14	11,4 (0.450)	15,8 (0.620)	18,4 (0.724)	464 (312)
CV04XW14_82000_NE	4	14	14	8,8 (0.345)	13,3 (0.522)	15,9 (0.627)	302 (203)
CV05XW14_82000_NE	5	14	14	9,7 (0.380)	13,5 (0.532)	16,1 (0.634)	333 (224)
CV07XW14_82000_NE	7	14	14	10,9 (0.430)	15,3 (0.602)	18,0 (0.710)	427 (287)
CV12XW14_82000_NE	12	14	14	14,2 (0.560)	20,0 (0.788)	22,7 (0.893)	632 (425)

* Ground wire not included

Code composition

CV	□□	X	□□□	_82000_NE

Number of conductors	To be inserted
3, ..., 12	03, ..., 12

Size	To be inserted
10, 12, 14	W10, W12, W14