SERIES 8200S

Metal-Clad Cable, MC-HL

Multiple pair cables, armored and shielded

Use

UL Listed armored and shielded 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 specifically made to meet particular industrial needs, where durability, impact and corrosion resistant, but also flexibility and easy use 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 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	PVC/Nylon
Conductor distinction	Numbered, black/white pairs
Shield	Aluminium tape on pairs and total, complete with drain wire
Internal jacket	PVC
Armor	Corrugated aluminium armor
External jacket	PVC, black color
Temperature range	+90°C
Voltage rating	600 V
Bending radius	12 x cable outer diameter
Standards of construction	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]	Cord diameter [mm (inch)]	Internal jacket diameter [mm (inch)]	Armour diameter [mm (inch)]	Jacket diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CV02XW16_8200S_NE	1x2	16	5,2 (0.204)	7,2 (0.285)	12,2 (0.482)	14,8 (0.584)	238 (160)
CV04XW16_8200S_NE	2x2	16	10,8 (0.424)	12,9 (0.506)	19,1 (0.752)	21,7 (0.856)	366 (246)
CV08XW16_8200S_NE	4x2	16	12,2 (0.482)	14,8 (0.584)	20,2 (0.797)	22,9 (0.901)	469 (315)
CV16XW16_8200S_NE	8x2	16	16,1 (0.635)	18,8 (0.740)	24,6 (0.968)	27,2 (1.072)	839 (564)
CV24XW16_8200S_NE	12x2	16	20,2 (0.797)	22,9 (0.900)	30,2 (1.190)	32,9 (1.294)	1133 (761)

Code composition

CV	□□	X	□□□	_8200S_NE

Number of conductors	To be inserted
1x2, ..., 12x2	02, ..., 24

Size	To be inserted
16	W16