

## PART 1 - GENERAL

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| <u>1.1 REFERENCES</u> | .1 | Canadian Standards Association (CSA International)<br>.1 CSA C22.2 No. 56, Flexible Metal Conduit and Liquid-Tight Flexible Metal Conduit.<br>.2 CSA C22.2 No. 83, Electrical Metallic Tubing. |
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## PART 2 - PRODUCTS

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| <u>2.1 CONDUITS</u>               | .1 | Electrical metallic tubing (EMT): to CSA C22.2 No. 83, with couplings.  |
|                                   | .2 | Flexible metal conduit: to CSA C22.2 No. 56, steel, liquid tight.   |
| <u>2.2 CONDUIT<br/>FASTENINGS</u> | .1 | One hole steel straps to secure surface conduits 53 mm and smaller.<br>.1 Two hole steel straps for conduits larger than 53 mm. |
|                                   | .2 | Beam clamps to secure conduits to exposed steel work.   |
|                                   | .3 | Channel type supports for two or more conduits at 1.8 m on centre.  |
|                                   | .4 | Threaded rods, 6 mm diameter, to support suspended channels.  |
| <u>2.3 CONDUIT<br/>FITTINGS</u>   | .1 | Fittings: to CAN/CSA C22.2 No. 18, manufactured for use with conduit specified. Coating: same as conduit.                       |
|                                   | .2 | Ensure factory "ells" where 90 degrees bends for 27 mm and larger conduits.   |
|                                   | .3 | Steel couplings for EMT. Set-screws type.   |
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2.3 CONDUIT  
FITTINGS  
(Cont'd) .4 Liquid tight fittings for flexible conduits  
exposed to weather and damp locations.

2.4 FISH CORD .1 Polypropylene.

PART 3 - EXECUTION

3.1 INSTALLATION .1 Install conduits to conserve headroom in  
exposed locations and cause minimum  
interference in spaces through which they  
pass.

.2 Surface mount conduits except in finished  
areas.

.3 Use electrical metallic tubing (EMT) except  
as otherwise indicated.

.4 Use flexible metal conduit for connection to  
motors in dry areas.

.5 Use liquid tight flexible metal conduit for  
connection to motors or vibrating equipment in  
damp, wet or corrosive locations, and as  
otherwise indicated. Use for power and  
controls to exterior condensing unit.

.6 Minimum conduit size: 21 mm.

.7 Bend conduit cold:  
.1 Replace conduit if kinked or flattened  
more than 1/10th of its original diameter.

.8 Mechanically bend steel conduit over 21 mm  
diameter.

.9 Install fish cord in empty conduits.

.10 Remove and replace blocked conduit sections.  
.1 Do not use liquids to clean out  
conduits.

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3.1 INSTALLATION      .11 Dry conduits out before installing wire.  
(Cont'd)

3.2 SURFACE      .1 Run parallel or perpendicular to building  
CONDUITS      lines.

                         .2 Run conduits in flanged portion of structural  
                         steel.

                         .3 Group conduits wherever possible on suspended  
                         or surface channels.

                         .4 Do not pass conduits through structural  
                         members except as indicated.

                         .5 Do not locate conduits less than 75 mm  
                         parallel to steam or hot water lines with  
                         minimum of 25 mm at crossovers.

3.3 CONCEALED      .1 Run parallel or perpendicular to building  
CONDUITS      lines.

                         .2 Do not install horizontal runs in masonry  
                         walls.

                         .3 Do not install conduits in terrazzo or  
                         concrete toppings.