

PART 1 - GENERAL

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| <u>1.1 RELATED REQUIREMENTS</u> | .1 | Section 26 05 20 - Wire and Box Connectors - 0 - 1000 V. |
| | .2 | Refer to drawings for wiring type required under different applications. |
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| <u>1.2 REFERENCES</u> | .1 | CSA C22.2 No .0.3 Test Methods for Electrical Wires and Cables. |
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| <u>1.3 PRODUCT DATA</u> | .1 | Submit product data in accordance with Section 01 33 00 - Submittal Procedures. |
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| <u>1.4 DELIVERY STORAGE AND HANDLING</u> | .1 | Separate and recycle waste materials in accordance with Section 01 10 10 - General Instructions. |
| | .2 | Collect and separate plastic, paper, packaging and corrugated cardboard in accordance with Waste Management Plan. |
| | .3 | Fold up metal banding, flatten and place in designated area for recycling. |

PART 2 - PRODUCTS

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| <u>2.1 BUILDING WIRES</u> | .1 | Conductors: stranded for 8 AWG and larger. Minimum size: 12 AWG. |
| | .2 | Copper conductors: size as indicated, with 600 V insulation of chemically cross-linked thermosetting polyethylene material rated RW90. |
| | .3 | Copper conductors: size as indicated, with thermoplastic insulation type TW rated at 600 V for bonding conductors only. |

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2.2 WIRING METHOD .1 The wiring method is RW90 copper conductors in EMT conduit. AC90 for lighting fixture drops with maximum length of 2 m secured at 600mm spacing.

2.3 ARMOURED CABLES .1 Conductors: insulated, copper, size as indicated.
.2 Type: AC90.
.3 Armour: interlocking type fabricated from aluminum strip.
.4 Type: ACWU90 flame retardant jacket over armour, meeting the requirements of Vertical Tray Fire Test of CSA22.2, No. 0.3 with maximum flame travel of 1.2 m.
.5 Connectors: standard as required, complete with double split rings.

PART 3 - EXECUTION

3.1 FIELD QUALITY CONTROL .1 Perform tests in accordance with Section 26 05 01 - Common Work Results - Electrical.
.2 Perform tests using method appropriate to site conditions and to approval of Departmental Representative and local authority having jurisdiction over installation.
.3 Perform tests before energizing electrical system.

3.2 GENERAL CABLE INSTALLATION .1 Terminate cables in accordance with Section 26 05 20 - Wire and Box Connectors - (0-1000 V).
.2 Cable Colour Coding: to Section 26 05 01 - Common Work Results - Electrical.
.3 Conductor length for parallel feeders to be identical.
.4 Lace or clip groups of feeder cables at distribution centres, pull boxes, and termination points.
.5 Wiring in walls: typically drop or loop vertically from above to better facilitate future renovations.

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| 3.2 GENERAL CABLE
INSTALLATION
(Cont'd) | .5 | Wiring in walls:(Cont'd)
Generally wiring from below and horizontal wiring in
walls to be avoided unless indicated. |
| 3.3 INSTALLATION OF
BUILDING WIRES | .1 | Install conduit systems in accordance with Section
26 05 34 - Conduits, Conduit Fastenings and Conduit
Fittings. |
| 3.4 INSTALLATION OF
CONTROL CABLES | .1 | Install control cables in conduit. |
| | .2 | Ground control cable shield. |
| 3.5 INSTALLATION OF
ARMOURED CABLES | .1 | Group cables wherever possible. |
| | .2 | Install in accordance with Section 26 05 29 -
Hangers and Supports for Electrical Systems. |