

PART 1 GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 74 21 -
Construction/Demolition Waste
Management and Disposal.
- .2 Section 26 80 00 - Commissioning of
Electrical Systems.
- .3 Section 26 05 00 - Common Work Results
- Electrical.

1.2 REFERENCES

- .1 Canadian Standards Association, (CSA)
- .2 Insulated Cable Engineers Association,
Inc. (ICEA)

PART 2 PRODUCTS

2.1 MARKERS

- .1 150mm wide, 4 mil, polyethylene marker
tape in all trenches. Use red colored
tape. Install at depth as per
drawings

PART 3 EXECUTION

3.1 CABLE INSTALLATION IN DUCTS

- .1 Install cables as indicated in ducts.
 - .1 Do not pull spliced cables
inside ducts.
- .2 Install multiple cables in duct
simultaneously.
- .3 Use CSA approved lubricants of type
compatible with cable jacket to reduce
pulling tension.
- .4 To facilitate matching of colour coded
multiconductor control cables reel off
in same direction during installation.
- .5 Before pulling cable into ducts and
until cables are properly terminated,
seal ends of lead covered cables with
wiping solder; seal ends of non-leaded
cables with moisture seal tape.

INSTALLATION OF CABLES IN Section 26 05 43.01
TRENCHES AND IN DUCTS

P/N: 711872/721941
Wharf Reconstruction
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Page 2
2018-02-02

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- .6 After installation of cables, seal duct ends with duct sealing compound.

3.2 MARKERS

- .1 150mm wide, 4 mil, polyethylene marker tape in all trenches. Use red colored tape. Install at depth as per drawings

3.3 FIELD QUALITY CONTROL

- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results - Electrical and Section 26 80 00 - Commissioning of Electrical Systems.
- .2 Perform tests using qualified personnel. Provide necessary instruments and equipment.
- .3 Check phase rotation and identify each phase conductor of each feeder.
- .4 Check each feeder for continuity, short circuits and grounds. Ensure resistance to ground of circuits is not less than 50 megohms.
- .5 Pre-acceptance tests.
 - .1 After installing cable but before splicing and terminating, perform insulation resistance test with 1000 V megger on each phase conductor.
 - .2 Check insulation resistance after each splice and/or termination to ensure that cable system is ready for acceptance testing.
- .6 Acceptance Tests
 - .1 Ensure that terminations and accessory equipment are disconnected.
 - .2 Ground shields, ground wires, metallic armour and conductors not under test.
- .7 Provide Owner's Representative with list of test results showing location at which each test was made, circuit tested and result of each test. Include results in Commissioning Manual.

INSTALLATION OF CABLES IN Section 26 05 43.01
TRENCHES AND IN DUCTS

P/N: 711872/721941
Wharf Reconstruction
Musgrave Harbour, NL

Page 3
2018-02-02

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- .8 Remove and replace entire length of
cable if cable fails to meet any of
test criteria.

END OF SECTION