

STANDARD INFORMATION

Standard: CSA C22.2 No. 327

Standard ID: HDPE Conduit, Conductors-in-Conduit, and Fittings [CSA C22.2#327:2018 Ed.2+U1]

Previous Standard ID: HDPE Conduit, Conductors-in-Conduit, and Fittings [CSA C22.2#327:2018 Ed.2]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **September 1, 2023**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes: Addition of clauses to cover pullout test, ovality test, bore test, water absorption test, and low-temperature handling test requirements for PEDW conduit. Specific details of new/revise requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i>
8	Info	High density polyethylene dual wall corrugated conduit
8.1	Info	General construction requirements
		<i>New clause added;</i>
8.1.1		The PEDW conduit shall be coilable.
8.6	Info	Tests on HDPE dual wall corrugated conduit
		<i>New clause added;</i>
8.6.9		Pullout test
		A coupling shall be tested in accordance with Clause 7.9.
		<i>New clause added;</i>
8.6.10		Ovality
		The dual wall corrugated conduit shall be tested in accordance with Clause 7.10.
		<i>New section added;</i>
8.6.11		Bore
8.6.11.1		The dual wall corrugated conduit shall be tested in accordance with Clauses 8.6.11.2 and 8.6.11.3.
8.6.11.2		A sample of a sufficient length shall be bent 90° around a mandrel with a radius as specified in Table 9.
8.6.11.3		A round ball or equivalent mandrel having a diameter 15% less than the minimum average inside diameter of the conduit, as specified in Table 8, shall pass freely through the bore of the PEDW conduit. In the case of discrepancy, the round ball shall serve as the reference test method.
		<i>New section added;</i>
8.6.12		Water absorption test
8.6.12.1		The dual wall corrugated conduit shall not change in weight by more than 0.01% when tested in accordance with Clauses 8.6.12.2 to 8.6.12.4.



CLAUSE	VERDICT	COMMENT
8.6.12.2		<p>A clean, dry specimen of the finished conduit shall be 152 ± 5 mm long, cut in the valley. The specimen shall be rejected if any gaps appear between the outer and inner walls using normal or corrected-to-normal vision. The specimen shall be preconditioned in a full-draft circulating air oven at 50 ± 2 °C for 24 h, then conditioned in still air at 23 ± 2 °C for 24 h.</p> <p>Note: See drawing in Annex B.</p>
8.6.12.3		<p>The specimen shall be weighed to ± 5 mg and then immersed in distilled water for 24 h at room temperature.</p>
8.6.12.4		<p>The specimen shall then be removed from the water, wiped quickly both inside and out with a clean piece of lintless cloth and immediately re-weighed to within ± 5 mg.</p>
		<p><i>New clause added;</i></p>
8.6.13		<p>Low-temperature handling test</p> <p>The PEDW conduit shall be tested in accordance with Clause 7.14.1. Fittings for PEDW conduit shall be tested in accordance with Clause 7.14.2.</p>