



B196.3-M1983
(reaffirmed 2021)

PVC Underground Telecommunication Cable Ducting and Fittings



Standards Update Service

B196.3-M1983

June 1983

Title: *PVC Underground Telecommunication Cable Ducting and Fittings*

To register for e-mail notification about any updates to this publication

- go to www.csagroup.org/store/
- click on **Product Updates**

The **List ID** that you will need to register for updates to this publication is **20002.1**

If you require assistance, please e-mail techsupport@csagroup.org or call 415-747-2233.

Visit CSA Group's policy on privacy at www.csagroup.org/legal to find out how we protect your personal information.



B196.3-M1983

PVC Underground Telecommunication Cable Ducting and Fittings



ISSN 0317-5669
Published in June, 1983
by
Canadian Standards Association
(Incorporated 1919)
178 Rexdale Boulevard
Rexdale (Toronto), Ontario
M9W 1R3

Contents

Clause		Page
	Technical Committee on Plastic Pipe	5
	Subcommittee on Telecommunication Cable Ducting	6
	Preface	7
	Foreword	8
1.	Scope	9
2.	Reference Publications	10
3.	General Requirements	11
4.	Classification of Duct	11
5.	Requirements for Manufactured Duct and Fittings	12
5.1	General	
5.2	Inside Surface Finish	
5.3	Coefficient of Static Friction	
5.4	Duct Dimensions	
5.4.1	Diameter and Wall Thickness	
5.4.2	Out-of-Round	
5.4.3	Straightness	
5.4.4	Length	
5.4.5	Dimensions of Bell-End Sockets	
5.5	Impact Resistance	
5.6	Weld-Line Strength	
5.7	Crush Strength	
5.8	Stiffness	
5.9	Beam Strength	
5.10	Coupling Crush Test	
5.11	Resistance to Elevated Temperature	
5.12	Freezing and Thawing	
5.13	Resistance to Boiling Water	
5.14	Chemical Resistance and Apparent Tensile Strength of Duct	
5.15	Sweeps	

Clause		Page
5.16	Jointing	
5.16.1	General	
5.16.2	Solvent Cemented Joints	
5.16.3	Coupling and Decoupling Test—Friction Fit Joints	
6.	Methods of Test	15
6.1	Conditioning	
6.2	Coefficient of Static Friction	
6.3	Impact Resistance	
6.4	Weld-Line Strength	
6.5	Crush Strength	
6.6	Beam Strength	
6.7	Coupling Crush Test	
6.8	Duct Tests at Elevated Temperatures	
6.9	Freezing and Thawing	
6.10	Resistance to Boiling Water	
6.11	Chemical Resistance and Apparent Tensile Strength	
6.12	Solvent Cement Joints	
6.13	Coupling and Decoupling Test—Friction Fit Joints	
7.	Marking	19
7.1	Duct	
7.2	Fittings	
7.3	Solvent Cement	
	Tables	21
	Figures	23

B196.3-M1983

PVC Underground Telecommunication Cable Ducting and Fittings

1. Scope

1.1

This Standard covers PVC duct and fittings that are used as a raceway for telecommunication cables. Such ducting may be encased in concrete or directly buried in the ground, depending on type.

1.2

Fittings covered by this Standard include sweeps, straight couplings, 5° couplings, caps, plugs, split sleeves, and bell ends for duct termination. Duct may also have bell ends. Adaptor fittings for transition to ducts made of different materials or of the same material with different dimensions are also covered.

1.3

This Standard includes requirements for materials, workmanship, dimensions and tolerances, strength, thermal resistance, chemical resistance, solvent cement, joint tightness, and marking.