

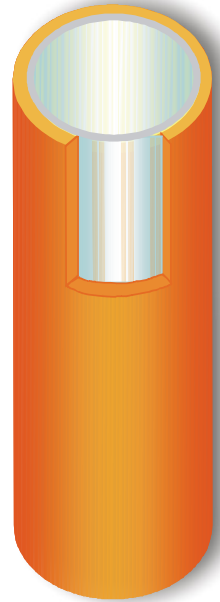
SINGLE DUCT: 32 & 40

Applications

- Direct buried
- In duct installation

Construction

Sheathing	Co-extruded High Density Polyethylene with a low coefficient layer High Density Polyethylene (UV stable for 1 Year)
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Mechanical properties

Duct	Duct inside diameter nominal (mm)	Cable weight (kg/km)	Maximum installation load (N)	Bending radius
				Long term (mm)
32	28	199	1300	640
32	27	230	1600	640
32	26	270	2000	640
40	36	238	1700	800
40	34	345	2300	800

Sheath colours as TIA/EIA available with stripes on request

Blue	Orange	Green	Brown	Grey	White
Red	Black	Yellow	Violet	Pink	Turquoise

Ordering information

Duct	Duct Inside diameter Size	Drum quantity(m)	Customer
32	26	1000	CBI

MECHANICAL PERFORMANCE CRITERIA

Impact Resistance: Test Method IEC 60794-1-2 Method E4		Test requirements:	Duct Length 200 mm Conditioning -10°C for 3hrs Anvil 25 mm ROC Weight 3 kg Free Fall Distance 221mm No. of Impacts 4 spaced equally
Test Load 6.5 J	32 and 40	Acceptance Criteria	No cracking or fracturing shall occur.
Crush Resistance: Test Method IEC 60794-1-2 Method E3		Test requirements:	Duct Length 150 mm Compressive Load 500 N Duration of Load 1 min.
Test Load 500 N	32 and 40	Acceptance Criteria	On removal of the load the inner diameter shall restore to 98
Tensile Performance: Test Method IEC 60794-1-2 Method E1		Test requirements:	Duct Length <10 m Rate of Extension 115 mm/min Tensile Load 9.81 x Test Weight Duration of Load 1 min.
Test Load See individual installation tensions	32 and 40	Acceptance Criteria	During load the elongation shall be less than 3%. Three minutes after load is removed the elongation shall be less than 1%
Flexibility (Bend): Test Method IEC 60794-1-2 Method E6		Test requirements:	Duct Length <1000 mm Mandrel Diameter 20D
		Acceptance Criteria	No kinking shall occur
Kink Resistance:		Test requirements:	Micro-Duct Length 1000 mm Bending Diameter 16D between parallel supports Duration 10 min
		Acceptance Criteria	After 10 minutes no kinking shall occur.
Friction Co-efficient		Test Requirement	Duct Length 5 m Loop Internal Diameter 750mm of 450° Optical Fibre Cable OD 10.5mm Weight 5kg Pulling Speed 500mm/min
		Acceptance Criteria	The calculated friction co-efficient shall be less than 0.1
Pressure Test:		Test requirements:	Duct Length <1000 mm Water Pressure 12 Bar water pressure Duration of Test 10 min.
		Acceptance Criteria	No leakage shall occur
Chemical Resistance:		Test requirements:	Duct Length 100mm Acid/Base Chemicals pH 2-12 Solvents Petrol, Acetone and Diesel
		Acceptance Criteria	The duct shall withstand chemical treatment
Environmental Stress Cracking:		Test requirements:	Strip Length 8mm wide x 38mm long No of strips 5 Chemical Teepol Blue 825 Temperature 50°C Duration of Test 400hours
		Acceptance Criteria	No cracks or ruptures shall be visible.