

SINGLE DUCT: 32 and 40

APPLICATION

- ◆ Direct buried
- ◆ In duct installation

32 & 40 DUCT

CONSTRUCTION

SHEATHING

Co-extruded High Density Polyethylene with low co-efficient layer.
 High Density Polyethylene (UV stable for 1 year).

MECHANICAL PROPERTIES

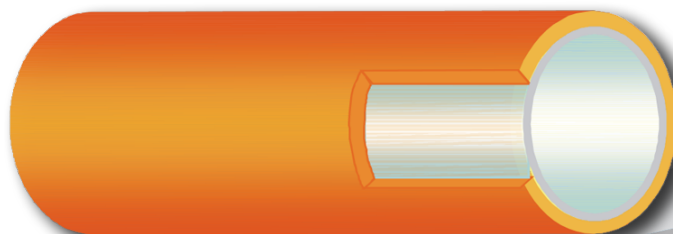
DUCT	DUCT DIAMETER NOMINAL (mm)	CABLE WEIGHT (kg/km)	MAXIMUM INSTALLATION LOAD (N)	BENDING RADIUS
				LONG TERM (mm)
32	28	199	1300	640
32	27	230	1600	640
32	26	270	2000	640
40	36	238	1700	800
40	34	345	2300	800

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 SIZE	DRUM QUANTITY (m)
32	26	1000



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MECHANICAL PERFORMANCE CRITERIA

IMPACT RESISTANCE: Test Method IEC 60794-1-2- Method E4		Test requirements:	Duct Length: 200mm Conditioning: -10°C for 3 hrs Anvil: 25mm ROC	Weight: 3kg 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: 150mm 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: <10m Rate of Extension: 115mm/min Compressive Load: 115mm/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: <1000mm Mandrel Diameter: 20D	
		Acceptance Criteria:	No kinking shall occur	
KINK RESISTANCE:		Test requirements:	Micro-Duct Length: 1000mm Bending Diameter: 16D between parallel supports Duration: 10 min	
		Acceptance Criteria:	After 10 minutes no kinking shall occur	
FRICTION CO-EFFICIENT:		Test requirements:	Duct Length: 5m 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: <1000mm 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: 400 hrs
		Acceptance Criteria:	No cracks or ruptures shall be visible	