

Electric Cable Duct DATA SHEET Ø63mm to Ø630mm

POLYMER

All pipe to be produced from Black PE100 polymer using one of the following grades:

- ☛ Borealis Borsafe HE3490-LS
- ☛ Ineos Eltex TUB121N3000
- ☛ Lyondell Bassell CRP100
- ☛ Sabc Vestolen A6060R10000

STRAIGHT STICK & COILED PIPE DIMENSIONS SDR11

All dimensions to be in accordance with table below:

Product Code	Outside diameter	Outside diameter	Ovality (Max)	SDR11 Wall Thickness	SDR11 Wall Thickness	SDR11 Inside Diameter	SDR11 Inside Diameter
	Min. (mm)	Max (mm)		Min. (mm)	Max. (mm)	Min. (mm)	Max. (mm)
PEHBKN063X**MED	63	63.4	1.5	5.8	6.5	50.0	51.8
PEHBKN075X**MED	75	75.5	1.6	6.8	7.6	59.8	61.9
PEHBKN090X**MED	90	90.6	1.8	8.2	9.2	71.6	74.2
PEHBKN110X**MED	110	110.7	2.2	10	11.1	87.8	90.7
PEHBKN125X**MED	125	125.8	2.5	11.4	12.7	99.6	103.0
PEHBKN140X**MED	140	140.9	2.8	12.7	14.1	111.8	115.5
PEHBKN160X**MED	160	161	3.2	14.6	16.2	127.6	131.8
PEHBKN180X**MED	180	181.1	3.6	16.4	18.2	143.6	148.3
PEHBKN200X**MED	200	201.2	4	18.2	20.2	159.6	164.8
PEHBKN225X**MED	225	226.4	4.5	20.5	22.7	179.6	185.4
PEHBKN250X**MED	250	251.5	5	22.7	25.1	199.8	206.1
PEHBKN280X**MED	280	281.7	9.8	25.4	28.1	223.8	230.9
PEHBKN315**MED	315	316.9	11.1	28.6	31.6	251.8	259.7
PEHBKN355X**MED	355	357.2	12.5	32.2	35.6	283.8	292.8
PEHBKN400X**MED	400	402.4	14	36.3	40.1	319.8	329.8
PEHBKN450X**MED	450	452.7	15.6	40.9	45.1	359.8	370.9
PEHBKN500X**MED	500	503	17.5	45.4	50.1	399.8	412.2
PEHBKN560X**MED	560	563.4	19.6	50.8	56	448.0	461.8
PEHBKN630X**MED	630	633.8	22.1	57.2	63.1	503.8	519.4

All dimensions are to be measured at 23 ±2°C

COILED PIPE AVAILABILITY (HIGHLIGHTED)

MARKING DETAIL

The pipe to be marked on two sides (180°) at intervals not greater than 1 metre

Example:

WWW.PEAKPIPESYSTEMS.COM; PEAK PIPE SYSTEMS (PPS1/2) HDPE PE100; NOT FOR POTABLE WATER; DANGER ELECTRIC CABLE OD X SDR11 BATCH NO. DATE /TIME B1/B2/B3 BUTT-WELDING TO BE IN ACCORDANCE WITH WIS 4-32-08 ; WO.No

Print colour: White

Print size: No smaller than 8mm

PIPE APPEARANCE

Colour: Solid black

Visual Appearance: internal and external surfaces shall be free of scoring, cavities or any other defects that would prevent conformity to customer requirements or compromise performance in use.

Pipe Ends: The ends of the pipe shall be clean and cut square to the axis of the pipe.

BENDING RADII

Typical bending radius for SDR11 & SDR17.6 pipes is 25 times the pipe O/D increasing to 35 times in very cold weather.

CHEMICAL RESISTANCE

- Polyethylene material is renowned for its excellent resistance to chemical attack.
- The degree of resistance to a specific chemical will depend on concentration and working pressure. Each of which will affect the long term life of any pipe.
- Polyethylene does not rust, rot, pit, corrode or lose wall section through chemical or electrical reaction within the surrounding soil.
- Polyethylene does not normally support the growth of, or nor is affected by, algae bacteria or fungi.

JOINTING/WELDING INFORMATION

We advise that Butt Welding and Electrofusion jointing methods are adhered to under the jointing guidelines **WIS 4-32-08**.

Performance of the product will be considerably reduced if incorrect jointing parameters are used.

We advise that good welding practice is always adhered to. Guidelines can be submitted for reference upon request.

QUALITY

At Peak Pipe Systems we have certified Quality Management Systems that comply with the requirements of **ISO 9001:2015 (FM654870)**

PERIODIC PRODUCT TESTING

☛ Resistance to Internal Pressure at 80°C for 165hrs, SDR11 Pressure (10.8 Bar)

A material test sample is taken and prepared on a periodic basis in accordance with BS EN ISO 1167. Time to failure shall be not less than 165 hours.

☛ Resistance to Internal Pressure at 20°C for 100hrs, SDR11 Pressure (24.8 Bar)

A material test sample is taken and prepared on a periodic basis in accordance with BS EN ISO 1167. Time to failure shall be not less than 100 hours.

☛ Resistance to Slow Crack Propagation.

A material test sample is taken and prepared on a periodic basis in accordance with BS EN ISO 13479. Time to failure shall be not less than 1,000 hours.

BATCH RELEASE TESTING (BRT)

Characteristics and minimum sampling frequency for the **BRT**

Characteristics	Reference to Part, clause or sub-clause BS EN12201-2: 2011+A1:2013	Minimum sampling frequency ^a	Number of test pieces	Test Method
Material Properties	4.1	Every Batch of Material	N/A	Refer to the Supplier's Certificate of Conformity
Appearance and colour	5.1+5.2	At start-up and at least every 8 hrs.	1	Visual Inspection Recorded on the Manufacturing Order ^b
Geometrical	6	At start-up and at least every 8 hrs	1	Visual Inspection Recorded on the Manufacturing Order ^b
Marking	11.2	At start-up and every 8 hrs.	1	Visual Inspection Recorded on the Manufacturing Order ^b
Elongation at break	7.2	1 sample/batch	See note c	EN ISO 6259-1 and ISO 6259-3 :1997
Tensile Strength for Butt Fusion	EN12201-5:2011, 4.2.2.1+4.2.2.2	1 sample/batch	1	ISO 13953

a. Batch refers to pipe batch but an alternative approach could be considered based on compound batch if agreed by the certification body.

b. See In Process Inspection

c. Number of test pieces and the test piece shape are specified in EN ISO 6259-1:2001 and ISO 6259-3:1997 respectively. The test pieces are taken from the circumference of one pipe sample.