



Product Datasheet MHT2868
ConDUCT PE
RED

General

Emtelle ConDUCT PE are suitable for cable production.
 Emtelle ConDUCT PE are smooth in- and outside
 The ends of the ducts are chamfered and ringmarked for easy and correct installation of couplers when two ducts are joint together. Both ends of the duct has a conductive coating. The ducts are skin colored red and supplied in 12m sticks.

Raw Materials

Material	PE raw materials are used
Density polyethylene	>0.96 g/cm ³
Mass flow rate of polyethylene	0.4 – 1.2 g/10min

Dimensions CONDUCT PE SDR17 RED

Product Code	Product Description	Supply Length	Metre / Frame
300068-12	110x6,6mm ConDUCT PE SDR17, 12m	12m	576m
300069-12	125x7,4mm ConDUCT PE SDR17, 12m	12m	408m
300070-12	140x8,3mm ConDUCT PE SDR17, 12m	12m	312m
300071-12	160x9,5mm ConDUCT PE SDR17, 12m	12m	240m
300072-12	180x10,7mm ConDUCT PE SDR17, 12m	12m	204m
300073-12	200x11,9mm ConDUCT PE SDR17, 12m	12m	168m
300074-12	225x13,4mm ConDUCT PE SDR17, 12m	12m	168m
300075-12	250x14,8mm ConDUCT PE SDR17, 12m	12m	84m
300076-12	280x16,6mm ConDUCT PE SDR17, 12m	12m	48m
300077-12	315x18,7mm ConDUCT PE SDR17, 12m	12m	36m
300078-12	355x21,1mm ConDUCT PE SDR17, 12m	12m	36m
300079-12	400x23,7mm ConDUCT PE SDR17, 12m	12m	36m
300080-12	450x26,7mm ConDUCT PE SDR17, 12m	12m	24m
300081-12	500x29,7mm ConDUCT PE SDR17, 12m	12m	24m
300082-12	560x33,2mm ConDUCT PE SDR17, 12m	12m	24m
300083-12	630x37,4mm ConDUCT PE SDR17, 12m	12m	12m
300084-12	710x42,1mm ConDUCT PE SDR17, 12m	12m	12m
300085-12	800x47,4mm ConDUCT PE SDR17, 12m	12m	12m

Other supply lengths available on request

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Dimensions CONDUCT PE SDR11 RED

Product Code	Product Description	Supply Length	Metre / Frame
300086-12	110x10mm ConDuct PE SDR11, 12m	12m	576m
300087-12	125x11,4mm ConDuct PE SDR11, 12m	12m	408m
300088-12	140x12,7mm ConDuct PE SDR11, 12m	12m	312m
300089-12	160x14,6mm ConDuct PE SDR11, 12m	12m	240m
300090-12	180x16,4mm ConDuct PE SDR11, 12m	12m	204m
300091-12	200x18,2mm ConDuct PE SDR11, 12m	12m	168m
300092-12	225x20,5mm ConDuct PE SDR11, 12m	12m	168m
300093-12	250x22,7mm ConDuct PE SDR11, 12m	12m	84m
300094-12	280x25,4mm ConDuct PE SDR11, 12m	12m	48m
300095-12	315x28,6mm ConDuct PE SDR11, 12m	12m	36m
300096-12	355x32,2mm ConDuct PE SDR11, 12m	12m	36m
300097-12	400x36,3mm ConDuct PE SDR11, 12m	12m	36m
300098-12	450x40,9mm ConDuct PE SDR11, 12m	12m	24m
300099-12	500x45,4mm ConDuct PE SDR11, 12m	12m	24m
300100-12	560x50,8mm ConDuct PE SDR11, 12m	12m	24m
300101-12	630x57,2mm ConDuct PE SDR11, 12m	12m	12m

Other supply lengths available on request

Pipe Performance

Physical Properties:

Test	Standard	Result
Impact test 5kg	DS EN 61386	OK
Elongation at Break	EN ISO 6259	>350%
Yield Stress	EN ISO 6259	>20MPa
Compression	DS EN 61386	>750N
Ring stiffness	ISO 9969	See tables below
Longitudinal reversion	EN ISO 2505	<3%
OIT ≥ 20 min	ISO 11357	OK

The pipes shall have dimensions (mm) as defined above, in addition other non-standard dimensions can be chosen,

The weight (mass) of the pipe shall be nominally calculated for 1m pipe

$$(OD - wt) \times wt \times \pi \times density$$

Where: OD (outside diameter) and wt (wall thickness) is in mm, and density for HDPE is 0.96 g/cm³.

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SDR 17										
OD [mm]	WT [mm]	ID [mm]	ODmin [mm]	ODmax [mm]	Ovality	WTmin [mm]	WTmax [mm]	Weight [kg/m]	Min Bend Radius [mm] @ 20 ° C	Ring Stiffness SN {kN/m ² }
110	6,6	96,8	110,0	110,7	2,2	6,6	7,4	2,06	2.200	16
125	7,4	110,2	125,0	125,8	2,5	7,4	8,3	2,62	2.500	16
140	8,3	123,4	140,0	140,9	2,8	8,3	9,3	3,30	2.800	16
160	9,5	141,0	160,0	161,0	3,2	9,5	10,6	4,31	3.200	16
180	10,7	158,6	180,0	181,1	3,6	10,7	11,9	5,46	3.600	16
200	11,9	176,2	200,0	201,2	4,0	11,9	13,2	6,75	4.000	16
225	13,4	198,2	225,0	226,4	4,5	13,4	14,9	8,55	4.500	16
250	14,8	220,4	250,0	251,5	5,0	14,8	16,4	10,50	5.000	16
280	16,6	246,8	280,0	281,7	5,0	16,6	18,4	13,19	5.600	16
315	18,7	277,6	315,0	316,9	5,0	18,7	20,7	16,71	6.300	16
355	21,1	312,8	355,0	357,2	6,0	21,1	23,4	21,25	7.100	16
400	23,7	352,6	400,0	402,4	7,0	23,7	26,2	26,90	8.000	16
450	26,7	396,6	450,0	452,7	8,0	26,7	29,5	34,09	9.000	16
500	29,7	440,6	500,0	503,0	8,0	29,7	32,8	42,13	10.000	16
560	33,2	493,6	560,0	563,4	8,0	33,2	36,7	52,75	11.200	16
630	37,4	555,2	630,0	633,8	9,0	37,4	41,3	66,84	12.600	16
710	42,1	625,8	710,0	716,4	9,0	42,1	46,5	84,80	14.200	16
800	47,4	705,2	800,0	807,2	10,0	47,4	52,3	107,59	16.000	16

*Note that “,” separates for decimals and “.” separates for thousands

**Safety factor 2

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SDR 11										
OD [mm]	WT [mm]	ID [mm]	ODmin [mm]	ODmax [mm]	Ovality	WTmin [mm]	WTmax [mm]	Weight [kg/m]	Min Bend Radius [mm] @ 20 ° C	Ring Stiffness SN {kN/m ² }
110	10,0	90,0	110,0	110,7	2,2	10,0	11,1	3,02	2.200	64
125	11,4	102,2	125,0	125,8	2,5	11,4	12,7	3,91	2.500	64
140	12,7	114,6	140,0	140,9	2,8	12,7	14,1	4,88	2.800	64
160	14,6	130,8	160,0	161,0	3,2	14,6	16,2	6,40	3.200	64
180	16,4	147,2	180,0	181,1	3,6	16,4	18,2	8,09	3.600	64
200	18,2	163,6	200,0	201,2	4,0	18,2	20,2	9,98	4.000	64
225	20,5	184,0	225,0	226,4	4,5	20,5	22,7	12,64	4.500	64
250	22,7	204,6	250,0	251,5	5,0	22,7	25,1	15,56	5.000	64
280	25,4	229,2	280,0	281,7	5,0	25,4	28,1	19,50	5.600	64
315	28,6	257,8	315,0	316,9	5,0	28,6	31,6	24,70	6.300	64
355	32,2	290,6	355,0	357,2	6,0	32,2	35,6	31,35	7.100	64
400	36,3	327,4	400,0	402,4	7,0	36,3	40,1	39,82	8.000	64
450	40,9	368,2	450,0	452,7	8,0	40,9	45,1	50,46	9.000	64
500	45,4	409,2	500,0	503,0	8,0	45,4	50,1	62,25	10.000	64
560	50,8	458,4	560,0	563,4	8,0	50,8	56,0	78,01	11.200	64
630	57,2	515,6	630,0	633,8	9,0	57,2	63,1	98,81	12.600	64

*Note that “,” separates for decimals and “.” separates for thousands

**Safety factor 2

Exposure:

The pipe shall be UV stabilised to withstand daylight exposure period of at least 12 months.

However, for optimum performance, the pipe is best stored for no longer than 6 months if outdoors.

Marking on duct every meter:

EMTELLE CONDUCT PE ODxWTmm SDR-value “DD.MM.YYYY HH:MM” “Lot. No.”

Environmental considerations: Can be disposed to recycling.

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