



Product Datasheet MHT2876

PowerProtect+ Red

General

Emtelle PowerProtect+ ducts are suitable for electric cable protection. The ducts are made of PE100. The ducts are manufactured and have mechanical performance according to DIN8074/DIN EN12201/DIN16834. Emtelle PowerProtect+ ducts are smooth in- and outside and suitable for Fusion-Butt-Welding.

The ducts are skinned coloured

Raw Materials

Material PE100 material are used

Dimensions PowerProtect+ 17 RED

Product Code	Product Description	Supply Length	Metre / Frame
300240-12	110x6,6mm PowerProtect+ SDR17, 12m	12	576
300241-12	125x7,4mm PowerProtect+ SDR17, 12m	12	408
300242-12	140x8,3mm PowerProtect+ SDR17, 12m	12	312
300243-12	160x9,5mm PowerProtect+ SDR17, 12m	12	240
300244-12	180x10,7mm PowerProtect+ SDR17, 12m	12	204
300245-12	200x11,9mm PowerProtect+ SDR17, 12m	12	168
300246-12	225x13,4mm PowerProtect+ SDR17, 12m	12	168
300247-12	250x14,8mm PowerProtect+ SDR17, 12m	12	84
300248-12	280x16,6mm PowerProtect+ SDR17, 12m	12	48
300249-12	315x18,7mm PowerProtect+ SDR17, 12m	12	36
300250-12	355x21,1mm PowerProtect+ SDR17, 12m	12	36
300251-12	400x23,7mm PowerProtect+ SDR17, 12m	12	36
300252-12	450x26,7mm PowerProtect+ SDR17, 12m	12	24
300253-12	500x29,7mm PowerProtect+ SDR17, 12m	12	24
300254-12	560x33,2mm PowerProtect+ SDR17, 12m	12	24
300255-12	630x37,4mm PowerProtect+ SDR17, 12m	12	12
300256-12	710x42,1mm PowerProtect+ SDR17, 12m	12	12
300257-12	800x47,4mm PowerProtect+ SDR17, 12m	12	12

Other supply lengths available on request

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Dimensions PowerProtect+ 11 RED

Product Code	Product Description	Supply Length	Metre / Frame
300258-12	110x10mm PowerProtect+ SDR11, 12m	12	576
300259-12	125x11,4mm PowerProtect+ SDR11, 12m	12	408
300260-12	140x12,7mm PowerProtect+ SDR11, 12m	12	312
300261-12	160x14,6mm PowerProtect+ SDR11, 12m	12	240
300262-12	180x16,4mm PowerProtect+ SDR11, 12m	12	204
300263-12	200x18,2mm PowerProtect+ SDR11, 12m	12	168
300264-12	225x20,5mm PowerProtect+ SDR11, 12m	12	168
300265-12	250x22,7mm PowerProtect+ SDR11, 12m	12	84
300266-12	280x25,4mm PowerProtect+ SDR11, 12m	12	48
300267-12	315x28,6mm PowerProtect+ SDR11, 12m	12	36
300268-12	355x32,2mm PowerProtect+ SDR11, 12m	12	36
300269-12	400x36,3mm PowerProtect+ SDR11, 12m	12	36
300270-12	450x40,9mm PowerProtect+ SDR11, 12m	12	24
300271-12	500x45,4mm PowerProtect+ SDR11, 12m	12	24
300272-12	560x50,8mm PowerProtect+ SDR11, 12m	12	24
300273-12	630x57,2mm PowerProtect+ SDR11, 12m	12	12

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Pipe Performance

Physical Properties:

Test	Standard	Result
Hydrostatic test 165 h	DIN EN 12201	OK
Impact test 5kg	DS EN 61386	OK
Elongation at Break	EN ISO 6259	>350%
Yield Stress	EN ISO 6259	>22MPa
Compression	DS EN 61386	>750N
Ring stiffness	ISO 9969	See tables below
Longitudinal reversion	EN ISO 2505	<3%
MFR (190°C/5kg)		
Deviation raw mat. To pipe: ≤ 20%	EN ISO 1133	OK
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

$$(OD - wt) \times wt \times \pi \times \text{density}$$

Where:

OD (outside diameter) and wt (wall thickness) is in mm, and density for PE100 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 }	Max Install tension [kN] @ 20 ° C	Max Install tension [kg] @ 20 ° C
110	6,6	96,8	110,0	110,7	2,2	6,6	7,4	2,06	2.200	16	22,64	2.305,51
125	7,4	110,2	125,0	125,8	2,5	7,4	8,3	2,62	2.500	16	28,87	2.939,96
140	8,3	123,4	140,0	140,9	2,8	8,3	9,3	3,30	2.800	16	36,26	3.692,89
160	9,5	141,0	160,0	161,0	3,2	9,5	10,6	4,31	3.200	16	47,43	4.830,17
180	10,7	158,6	180,0	181,1	3,6	10,7	11,9	5,46	3.600	16	60,10	6.119,88
200	11,9	176,2	200,0	201,2	4,0	11,9	13,2	6,75	4.000	16	74,26	7.562,02
225	13,4	198,2	225,0	226,4	4,5	13,4	14,9	8,55	4.500	16	94,07	9.579,06
250	14,8	220,4	250,0	251,5	5,0	14,8	16,4	10,50	5.000	16	115,48	11.759,84
280	16,6	246,8	280,0	281,7	5,0	16,6	18,4	13,19	5.600	16	145,06	14.771,55
315	18,7	277,6	315,0	316,9	5,0	18,7	20,7	16,71	6.300	16	183,82	18.718,69
355	21,1	312,8	355,0	357,2	6,0	21,1	23,4	21,25	7.100	16	233,73	23.801,33
400	23,7	352,6	400,0	402,4	7,0	23,7	26,2	26,90	8.000	16	295,87	30.129,01
450	26,7	396,6	450,0	452,7	8,0	26,7	29,5	34,09	9.000	16	374,95	38.182,28
500	29,7	440,6	500,0	503,0	8,0	29,7	32,8	42,13	10.000	16	463,39	47.188,23
560	33,2	493,6	560,0	563,4	8,0	33,2	36,7	52,75	11.200	16	580,23	59.086,21
630	37,4	555,2	630,0	633,8	9,0	37,4	41,3	66,84	12.600	16	735,27	74.874,78
710	42,1	625,8	710,0	716,4	9,0	42,1	46,5	84,80	14.200	16	932,84	94.993,93
800	47,4	705,2	800,0	807,2	10,0	47,4	52,3	107,59	16.000	16	1.183,47	120.516,04

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

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 }	Max Install tension [kN] @ 20 ° C	Max Install tension [kg] @ 20 ° C
110	10,0	90,0	110,0	110,7	2,2	10,0	11,1	3,02	2.200	64	33,18	3.378,33
125	11,4	102,2	125,0	125,8	2,5	11,4	12,7	3,91	2.500	64	42,96	4.375,07
140	12,7	114,6	140,0	140,9	2,8	12,7	14,1	4,88	2.800	64	53,63	5.461,78
160	14,6	130,8	160,0	161,0	3,2	14,6	16,2	6,40	3.200	64	70,43	7.171,66
180	16,4	147,2	180,0	181,1	3,6	16,4	18,2	8,09	3.600	64	89,01	9.064,20
200	18,2	163,6	200,0	201,2	4,0	18,2	20,2	9,98	4.000	64	109,77	11.178,09
225	20,5	184,0	225,0	226,4	4,5	20,5	22,7	12,64	4.500	64	139,08	14.162,81
250	22,7	204,6	250,0	251,5	5,0	22,7	25,1	15,56	5.000	64	171,17	17.431,21
280	25,4	229,2	280,0	281,7	5,0	25,4	28,1	19,50	5.600	64	214,54	21.847,13
315	28,6	257,8	315,0	316,9	5,0	28,6	31,6	24,70	6.300	64	271,74	27.672,05
355	32,2	290,6	355,0	357,2	6,0	32,2	35,6	31,35	7.100	64	344,83	35.114,92
400	36,3	327,4	400,0	402,4	7,0	36,3	40,1	39,82	8.000	64	437,99	44.601,78
450	40,9	368,2	450,0	452,7	8,0	40,9	45,1	50,46	9.000	64	555,09	56.526,89
500	45,4	409,2	500,0	503,0	8,0	45,4	50,1	62,25	10.000	64	684,70	69.724,85
560	50,8	458,4	560,0	563,4	8,0	50,8	56,0	78,01	11.200	64	858,16	87.388,53
630	57,2	515,6	630,0	633,8	9,0	57,2	63,1	98,81	12.600	64	1.086,96	110.688,20

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

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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 POWERPROTECT+ PE100 ODxWTmm SDR-Value “DD.MM.YYYY HH:MM” “Lot. No.”

Environmental considerations: Can be disposed to recycling.

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