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Product Datasheet MHT2880
PowerProtect+ C1+
BLACK

General

Emtelle PowerProtect+ C1+ ducts are suitable for electric cable protection. The ducts are made of PE100 material. The ducts are manufactured and have mechanical performance according to ENATS 12-24, DIN8074/DIN EN12201 Emtelle PowerProtect+ C1+ducts are smooth in- and outside. The duct can be connected using ElectroFusion Couplers, Mechanical Couplers or Fusion-Butt-Welding.

The ducts are skinned coloured BLACK.

Raw Materials

Material 100% PE100 material are used

Dimensions PowerProtect+ SDR17 BLACK

Product Code	Product Description	Supply Length	Metre / Frame
300342-12	110x6,6mm PowerProtect+ C1+ SDR17 Black, 12m	12m	576m
300343-12	125x7,4mm PowerProtect+ C1+ SDR17 Black, 12m	12m	408m
300344-12	140x8,3mm PowerProtect+ C1+ SDR17 Black, 12m	12m	312m
300345-12	160x9,5mm PowerProtect+ C1+ SDR17 Black, 12m	12m	240m
300346-12	180x10,7mm PowerProtect+ C1+ SDR17 Black, 12m	12m	204m
300347-12	200x11,9mm PowerProtect+ C1+ SDR17 Black, 12m	12m	168m
300348-12	225x13,4mm PowerProtect+ C1+ SDR17 Black, 12m	12m	168m
300349-12	250x14,8mm PowerProtect+ C1+ SDR17 Black, 12m	12m	84m
300350-12	280x16,6mm PowerProtect+ C1+ SDR17 Black, 12m	12m	48m
300351-12	315x18,7mm PowerProtect+ C1+ SDR17 Black, 12m	12m	36m
300352-12	355x21,1mm PowerProtect+ C1+ SDR17 Black, 12m	12m	36m
300353-12	400x23,7mm PowerProtect+ C1+ SDR17 Black, 12m	12m	36m
300354-12	450x26,7mm PowerProtect+ C1+ SDR17 Black, 12m	12m	24m
300355-12	500x29,7mm PowerProtect+ C1+ SDR17 Black, 12m	12m	24m
300356-12	560x33,2mm PowerProtect+ C1+ SDR17 Black, 12m	12m	24m
300357-12	630x37,4mm PowerProtect+ C1+ SDR17 Black, 12m	12m	12m
300358-12	710x42,1mm PowerProtect+ C1+ SDR17 Black, 12m	12m	12m
300359-12	800x47,4mm PowerProtect+ C1+ SDR17 Black, 12m	12m	12m

Other supply lengths available on request

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Dimensions PowerProtect+ SDR11 BLACK

Product Code	Product Description	Supply Length	Metre / Frame
300360-12	110x10mm PowerProtect C1+ SDR11 Black, 12m	12m	576m
300361-12	125x11,4mm PowerProtect C1+ SDR11 Black, 12m	12m	408m
300362-12	140x12,7mm PowerProtect C1+ SDR11 Black, 12m	12m	312m
300363-12	160x14,6mm PowerProtect C1+ SDR11 Black, 12m	12m	240m
300364-12	180x16,4mm PowerProtect C1+ SDR11 Black, 12m	12m	204m
300365-12	200x18,2mm PowerProtect C1+ SDR11 Black, 12m	12m	168m
300366-12	225x20,5mm PowerProtect C1+ SDR11 Black, 12m	12m	168m
300367-12	250x22,7mm PowerProtect C1+ SDR11 Black, 12m	12m	84m
300368-12	280x25,4mm PowerProtect C1+ SDR11 Black, 12m	12m	48m
300369-12	315x28,6mm PowerProtect C1+ SDR11 Black, 12m	12m	36m
300370-12	355x32,2mm PowerProtect C1+ SDR11 Black, 12m	12m	36m
300371-12	400x36,3mm PowerProtect C1+ SDR11 Black, 12m	12m	36m
300372-12	450x40,9mm PowerProtect C1+ SDR11 Black, 12m	12m	24m
300373-12	500x45,4mm PowerProtect C1+ SDR11 Black, 12m	12m	24m
300374-12	560x50,8mm PowerProtect C1+ SDR11 Black, 12m	12m	24m
300375-12	630x57,2mm PowerProtect C1+ SDR11 Black, 12m	12m	12m

Other supply lengths available on request

Dimensions PowerProtect+ SDR9 BLACK

Product Code	Product Description	Supply Length	Metre / Frame
300682-12	110x12,3mm PowerProtect C1+ SDR9 Black, 12m	12m	576m
300683-12	125x14,0mm PowerProtect C1+ SDR9 Black, 12m	12m	408m
300684-12	140x15,7mm PowerProtect C1+ SDR9 Black, 12m	12m	312m
300685-12	160x17,9mm PowerProtect C1+ SDR9 Black, 12m	12m	240m
300686-12	180x20,1mm PowerProtect C1+ SDR9 Black, 12m	12m	204m
300687-12	200x22,4mm PowerProtect C1+ SDR9 Black, 12m	12m	168m
300688-12	225x25,2mm PowerProtect C1+ SDR9 Black, 12m	12m	168m
300689-12	250x27,9mm PowerProtect C1+ SDR9 Black, 12m	12m	84m
300690-12	280x31,3mm PowerProtect C1+ SDR9 Black, 12m	12m	48m
300691-12	315x35,2mm PowerProtect C1+ SDR9 Black, 12m	12m	36m
300692-12	355x39,7mm PowerProtect C1+ SDR9 Black, 12m	12m	36m
300693-12	400x44,7mm PowerProtect C1+ SDR9 Black, 12m	12m	36m
300694-12	450x50,3mm PowerProtect C1+ SDR9 Black, 12m	12m	24m
300695-12	500x55,8mm PowerProtect C1+ SDR9 Black, 12m	12m	24m

Other supply lengths available on request

Pipe Performance

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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 PE material is 0.96 g/cm³

Appendix SDR17

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

Appendix SDR11

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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 }	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

Appendix SDR9

SDR 9												
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	12,3	85,4	110,0	110,7	2,2	12,3	13,7	3,62	2.200	TBC	39,87	4.059,78
125	14,0	97,0	125,0	125,8	2,5	14,0	15,6	4,68	2.500	TBC	51,55	5.249,93
140	15,7	108,6	140,0	140,9	2,8	15,7	17,4	5,88	2.800	TBC	64,74	6.592,85
160	17,9	124,2	160,0	161,0	3,2	17,9	19,8	7,67	3.200	TBC	84,38	8.593,09
180	20,1	139,8	180,0	181,1	3,6	20,1	22,3	9,69	3.600	TBC	106,62	10.857,92
200	22,4	155,2	200,0	201,2	4,0	22,4	24,8	11,99	4.000	TBC	131,98	13.439,81
225	25,2	174,6	225,0	226,4	4,5	25,2	27,9	15,18	4.500	TBC	167,04	17.009,77
250	27,9	194,2	250,0	251,5	5,0	27,9	30,8	18,68	5.000	TBC	205,57	20.934,14
280	31,3	217,4	280,0	281,7	5,0	31,3	34,6	23,47	5.600	TBC	258,25	26.297,98
315	35,2	244,6	315,0	316,9	5,0	35,2	38,9	29,69	6.300	TBC	326,74	33.273,05
355	39,7	275,6	355,0	357,2	6,0	39,7	43,8	37,73	7.100	TBC	415,27	42.287,96
400	44,7	310,6	400,0	402,4	7,0	44,7	49,3	47,87	8.000	TBC	526,89	53.654,36
450	50,3	349,4	450,0	452,7	8,0	50,3	55,5	60,60	9.000	TBC	666,98	67.921,06
500	55,8	388,4	500,0	503,0	8,0	55,8	61,5	74,72	10.000	TBC	822,29	83.736,55

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

Exposure:

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

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Marking on duct every meter:

**ELECTRIC CABLE DUCT C1+ [POWERPROTECT+ LOGO] ODmm SDR-Value EMTELLE MACHINE NO. “DD.MM.YYYY
HH:MM” “Lot. No.”**

3 Lines of print @120degree

Environmental considerations: Can be disposed to recycling.

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