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## Product Datasheet MHT2884

### Fibre Optic Cable Duct C1+ GREEN

#### General

Ementelle Fibre Optic Cable Duct C1+ ducts are suitable for fibre 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 Ementelle Fibre Optic Cable Duct 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 GREEN.

#### Raw Materials

Material 100% PE100 material are used

#### Dimensions PowerProtect+ SDR17 GREEN

Product Code	Product Description	Supply Length	Metre / Frame
300376-12	110x6,6mm FOCD C1+ SDR17 Green, 12m	12m	576m
300377-12	125x7,4mm FOCD C1+ SDR17 Green, 12m	12m	408m
300378-12	140x8,3mm FOCD C1+ SDR17 Green, 12m	12m	312m
300379-12	160x9,5mm FOCD C1+ SDR17 Green, 12m	12m	240m
300380-12	180x10,7mm FOCD C1+ SDR17 Green, 12m	12m	204m
300381-12	200x11,9mm FOCD C1+ SDR17 Green, 12m	12m	168m
300382-12	225x13,4mm FOCD C1+ SDR17 Green, 12m	12m	168m
300383-12	250x14,8mm FOCD C1+ SDR17 Green, 12m	12m	84m
300384-12	280x16,6mm FOCD C1+ SDR17 Green, 12m	12m	48m
300385-12	315x18,7mm FOCD C1+ SDR17 Green, 12m	12m	36m
300386-12	355x21,1mm FOCD C1+ SDR17 Green, 12m	12m	36m
300387-12	400x23,7mm FOCD C1+ SDR17 Green, 12m	12m	36m
300388-12	450x26,7mm FOCD C1+ SDR17 Green, 12m	12m	24m
300389-12	500x29,7mm FOCD C1+ SDR17 Green, 12m	12m	24m
300390-12	560x33,2mm FOCD C1+ SDR17 Green, 12m	12m	24m
300391-12	630x37,4mm FOCD C1+ SDR17 Green, 12m	12m	12m
300392-12	710x42,1mm FOCD C1+ SDR17 Green, 12m	12m	12m
300393-12	800x47,4mm FOCD C1+ SDR17 Green, 12m	12m	12m

Other supply lengths available on request

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**Dimensions PowerProtect+ SDR11 GREEN**

Product Code	Product Description	Supply Length	Metre / Frame
300394-12	110x10mm FOCD C1+ SDR11 Green, 12m	12m	576m
300395-12	125x11,4mm FOCD C1+ SDR11 Green, 12m	12m	408m
300396-12	140x12,7mm FOCD C1+ SDR11 Green, 12m	12m	312m
300397-12	160x14,6mm FOCD C1+ SDR11 Green, 12m	12m	240m
300398-12	180x16,4mm FOCD C1+ SDR11 Green, 12m	12m	204m
300399-12	200x18,2mm FOCD C1+ SDR11 Green, 12m	12m	168m
300400-12	225x20,5mm FOCD C1+ SDR11 Green, 12m	12m	168m
300401-12	250x22,7mm FOCD C1+ SDR11 Green, 12m	12m	84m
300402-12	280x25,4mm FOCD C1+ SDR11 Green, 12m	12m	48m
300403-12	315x28,6mm FOCD C1+ SDR11 Green, 12m	12m	36m
300404-12	355x32,2mm FOCD C1+ SDR11 Green, 12m	12m	36m
300405-12	400x36,3mm FOCD C1+ SDR11 Green, 12m	12m	36m
300406-12	450x40,9mm FOCD C1+ SDR11 Green, 12m	12m	24m
300407-12	500x45,4mm FOCD C1+ SDR11 Green, 12m	12m	24m
300408-12	560x50,8mm FOCD C1+ SDR11 Green, 12m	12m	24m
300409-12	630x57,2mm FOCD C1+ SDR11 Green, 12m	12m	12m

Other supply lengths available on request

**Dimensions PowerProtect+ SDR9 GREEN**

Product Code	Product Description	Supply Length	Metre / Frame
300696-12	110x12,3mm FOCD C1+ SDR9 Green, 12m	12m	576m
300697-12	125x14,0mm FOCD C1+ SDR9 Green, 12m	12m	408m
300698-12	140x15,7mm FOCD C1+ SDR9 Green, 12m	12m	312m
300699-12	160x17,9mm FOCD C1+ SDR9 Green, 12m	12m	240m
300700-12	180x20,1mm FOCD C1+ SDR9 Green, 12m	12m	204m
300701-12	200x22,4mm FOCD C1+ SDR9 Green, 12m	12m	168m
300702-12	225x25,2mm FOCD C1+ SDR9 Green, 12m	12m	168m
300703-12	250x27,9mm FOCD C1+ SDR9 Green, 12m	12m	84m
300704-12	280x31,3mm FOCD C1+ SDR9 Green, 12m	12m	48m
300705-12	315x35,2mm FOCD C1+ SDR9 Green, 12m	12m	36m
300706-12	355x39,7mm FOCD C1+ SDR9 Green, 12m	12m	36m
300707-12	400x44,7mm FOCD C1+ SDR9 Green, 12m	12m	36m
300708-12	450x50,3mm FOCD C1+ SDR9 Green, 12m	12m	24m
300709-12	500x55,8mm FOCD C1+ SDR9 Green, 12m	12m	24m

Other supply lengths available on request

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## 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	>22MPa
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

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

Where:  
OD (outside diameter) and wt (wall thickness) is in mm, and density for PE material is 0.96 g/cm<sup>3</sup>

## 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 <sup>2</sup> }	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

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**Appendix SDR11**

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 <sup>2</sup> }	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 <sup>2</sup> }	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

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Issue B: 06/02/2026

**Exposure:**

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

**Marking on duct every meter:**

**FIBRE OPTIC CABLE DUCT C1+ 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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