



Product Datasheet MHT2872

PowerProtect Black with Red Stripes

General

Emtelle PowerProtect PE ducts are made of PE Material and are suitable for cable protection. The ducts are manufactured with tolerances according to DIN EN12201. Emtelle PowerProtect PE ducts are smooth in- and outside and suitable for Fusion-Butt-Welding.

Raw Materials

Material PE100, PE100 Re grind and HDPE raw materials are used

Dimensions PowerProtect SDR17 BLACK WITH RED STRIPES

| Product Code | Product Description | Supply Length | Metre / Frame |
|--------------|------------------------------------|---------------|---------------|
| 300138-12 | 110x6,6mm PowerProtect SDR17, 12m | 12m | 576m |
| 300139-12 | 125x7,4mm PowerProtect SDR17, 12m | 12m | 408m |
| 300140-12 | 140x8,3mm PowerProtect SDR17, 12m | 12m | 312m |
| 300141-12 | 160x9,5mm PowerProtect SDR17, 12m | 12m | 240m |
| 300142-12 | 180x10,7mm PowerProtect SDR17, 12m | 12m | 204m |
| 300143-12 | 200x11,9mm PowerProtect SDR17, 12m | 12m | 168m |
| 300144-12 | 225x13,4mm PowerProtect SDR17, 12m | 12m | 168m |
| 300145-12 | 250x14,8mm PowerProtect SDR17, 12m | 12m | 84m |
| 300146-12 | 280x16,6mm PowerProtect SDR17, 12m | 12m | 48m |
| 300147-12 | 315x18,7mm PowerProtect SDR17, 12m | 12m | 36m |
| 300148-12 | 355x21,1mm PowerProtect SDR17, 12m | 12m | 36m |
| 300149-12 | 400x23,7mm PowerProtect SDR17, 12m | 12m | 36m |
| 300150-12 | 450x26,7mm PowerProtect SDR17, 12m | 12m | 24m |
| 300151-12 | 500x29,7mm PowerProtect SDR17, 12m | 12m | 24m |
| 300152-12 | 560x33,2mm PowerProtect SDR17, 12m | 12m | 24m |
| 300153-12 | 630x37,4mm PowerProtect SDR17, 12m | 12m | 12m |
| 300154-12 | 710x42,1mm PowerProtect SDR17, 12m | 12m | 12m |
| 300155-12 | 800x47,4mm PowerProtect SDR17, 12m | 12m | 12m |

Other supply lengths available on request

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Dimensions PowerProtect SDR11 BLACK WITH RED STRIPES

| Product Code | Product Description | Supply Length | Metre / Frame |
|--------------|------------------------------------|---------------|---------------|
| 300156-12 | 110x10mm PowerProtect SDR11, 12m | 12m | 576m |
| 300157-12 | 125x11,4mm PowerProtect SDR11, 12m | 12m | 408m |
| 300158-12 | 140x12,7mm PowerProtect SDR11, 12m | 12m | 312m |
| 300159-12 | 160x14,6mm PowerProtect SDR11, 12m | 12m | 240m |
| 300160-12 | 180x16,4mm PowerProtect SDR11, 12m | 12m | 204m |
| 300161-12 | 200x18,2mm PowerProtect SDR11, 12m | 12m | 168m |
| 300162-12 | 225x20,5mm PowerProtect SDR11, 12m | 12m | 168m |
| 300163-12 | 250x22,7mm PowerProtect SDR11, 12m | 12m | 84m |
| 300164-12 | 280x25,4mm PowerProtect SDR11, 12m | 12m | 48m |
| 300165-12 | 315x28,6mm PowerProtect SDR11, 12m | 12m | 36m |
| 300166-12 | 355x32,2mm PowerProtect SDR11, 12m | 12m | 36m |
| 300167-12 | 400x36,3mm PowerProtect SDR11, 12m | 12m | 36m |
| 300168-12 | 450x40,9mm PowerProtect SDR11, 12m | 12m | 24m |
| 300169-12 | 500x45,4mm PowerProtect SDR11, 12m | 12m | 24m |
| 300170-12 | 560x50,8mm PowerProtect SDR11, 12m | 12m | 24m |
| 300171-12 | 630x57,2mm PowerProtect 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 PE material 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 | 20,58 | 2.095,92 |
| 125 | 7,4 | 110,2 | 125,0 | 125,8 | 2,5 | 7,4 | 8,3 | 2,62 | 2.500 | 16 | 26,25 | 2.672,69 |
| 140 | 8,3 | 123,4 | 140,0 | 140,9 | 2,8 | 8,3 | 9,3 | 3,30 | 2.800 | 16 | 32,97 | 3.357,17 |
| 160 | 9,5 | 141,0 | 160,0 | 161,0 | 3,2 | 9,5 | 10,6 | 4,31 | 3.200 | 16 | 43,12 | 4.391,06 |
| 180 | 10,7 | 158,6 | 180,0 | 181,1 | 3,6 | 10,7 | 11,9 | 5,46 | 3.600 | 16 | 54,63 | 5.563,53 |
| 200 | 11,9 | 176,2 | 200,0 | 201,2 | 4,0 | 11,9 | 13,2 | 6,75 | 4.000 | 16 | 67,51 | 6.874,57 |
| 225 | 13,4 | 198,2 | 225,0 | 226,4 | 4,5 | 13,4 | 14,9 | 8,55 | 4.500 | 16 | 85,51 | 8.708,23 |
| 250 | 14,8 | 220,4 | 250,0 | 251,5 | 5,0 | 14,8 | 16,4 | 10,50 | 5.000 | 16 | 104,98 | 10.690,76 |
| 280 | 16,6 | 246,8 | 280,0 | 281,7 | 5,0 | 16,6 | 18,4 | 13,19 | 5.600 | 16 | 131,87 | 13.428,68 |
| 315 | 18,7 | 277,6 | 315,0 | 316,9 | 5,0 | 18,7 | 20,7 | 16,71 | 6.300 | 16 | 167,11 | 17.017,00 |
| 355 | 21,1 | 312,8 | 355,0 | 357,2 | 6,0 | 21,1 | 23,4 | 21,25 | 7.100 | 16 | 212,48 | 21.637,57 |
| 400 | 23,7 | 352,6 | 400,0 | 402,4 | 7,0 | 23,7 | 26,2 | 26,90 | 8.000 | 16 | 268,97 | 27.390,01 |
| 450 | 26,7 | 396,6 | 450,0 | 452,7 | 8,0 | 26,7 | 29,5 | 34,09 | 9.000 | 16 | 340,86 | 34.711,16 |
| 500 | 29,7 | 440,6 | 500,0 | 503,0 | 8,0 | 29,7 | 32,8 | 42,13 | 10.000 | 16 | 421,26 | 42.898,40 |
| 560 | 33,2 | 493,6 | 560,0 | 563,4 | 8,0 | 33,2 | 36,7 | 52,75 | 11.200 | 16 | 527,48 | 53.714,74 |
| 630 | 37,4 | 555,2 | 630,0 | 633,8 | 9,0 | 37,4 | 41,3 | 66,84 | 12.600 | 16 | 668,43 | 68.067,98 |
| 710 | 42,1 | 625,8 | 710,0 | 716,4 | 9,0 | 42,1 | 46,5 | 84,80 | 14.200 | 16 | 848,04 | 86.358,12 |
| 800 | 47,4 | 705,2 | 800,0 | 807,2 | 10,0 | 47,4 | 52,3 | 107,59 | 16.000 | 16 | 1.075,88 | 109.560,04 |

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

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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 | 30,16 | 3.071,21 |
| 125 | 11,4 | 102,2 | 125,0 | 125,8 | 2,5 | 11,4 | 12,7 | 3,91 | 2.500 | 64 | 39,06 | 3.977,34 |
| 140 | 12,7 | 114,6 | 140,0 | 140,9 | 2,8 | 12,7 | 14,1 | 4,88 | 2.800 | 64 | 48,76 | 4.965,26 |
| 160 | 14,6 | 130,8 | 160,0 | 161,0 | 3,2 | 14,6 | 16,2 | 6,40 | 3.200 | 64 | 64,02 | 6.519,69 |
| 180 | 16,4 | 147,2 | 180,0 | 181,1 | 3,6 | 16,4 | 18,2 | 8,09 | 3.600 | 64 | 80,92 | 8.240,18 |
| 200 | 18,2 | 163,6 | 200,0 | 201,2 | 4,0 | 18,2 | 20,2 | 9,98 | 4.000 | 64 | 99,79 | 10.161,90 |
| 225 | 20,5 | 184,0 | 225,0 | 226,4 | 4,5 | 20,5 | 22,7 | 12,64 | 4.500 | 64 | 126,44 | 12.875,28 |
| 250 | 22,7 | 204,6 | 250,0 | 251,5 | 5,0 | 22,7 | 25,1 | 15,56 | 5.000 | 64 | 155,61 | 15.846,56 |
| 280 | 25,4 | 229,2 | 280,0 | 281,7 | 5,0 | 25,4 | 28,1 | 19,50 | 5.600 | 64 | 195,04 | 19.861,03 |
| 315 | 28,6 | 257,8 | 315,0 | 316,9 | 5,0 | 28,6 | 31,6 | 24,70 | 6.300 | 64 | 247,04 | 25.156,41 |
| 355 | 32,2 | 290,6 | 355,0 | 357,2 | 6,0 | 32,2 | 35,6 | 31,35 | 7.100 | 64 | 313,48 | 31.922,66 |
| 400 | 36,3 | 327,4 | 400,0 | 402,4 | 7,0 | 36,3 | 40,1 | 39,82 | 8.000 | 64 | 398,17 | 40.547,08 |
| 450 | 40,9 | 368,2 | 450,0 | 452,7 | 8,0 | 40,9 | 45,1 | 50,46 | 9.000 | 64 | 504,63 | 51.388,08 |
| 500 | 45,4 | 409,2 | 500,0 | 503,0 | 8,0 | 45,4 | 50,1 | 62,25 | 10.000 | 64 | 622,45 | 63.386,23 |
| 560 | 50,8 | 458,4 | 560,0 | 563,4 | 8,0 | 50,8 | 56,0 | 78,01 | 11.200 | 64 | 780,14 | 79.444,11 |
| 630 | 57,2 | 515,6 | 630,0 | 633,8 | 9,0 | 57,2 | 63,1 | 98,81 | 12.600 | 64 | 988,14 | 100.625,64 |

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

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 ODxWTmm SDR-value DD.MM.YYYY HH:MM Lot. No.

Environmental considerations: Can be disposed to recycling.

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