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Product Datasheet MHT 345

Generic Specification Cable Ducts



General

The duct features an internal bonded low friction dry silicone liner to reduce frictional contact.
The duct is supplied in coils or on drums.

Raw Materials

HDPE raw materials are used.

Density polyethylene 0,94 – 0,96 g/cm³

Mass flow rate of polyethylene 0,4 – 1,2 g/10min

Dimensions

| Size | SDR | Mean Outside Diameter | | | Ovality | Wall Thickness | | | Mass nom g/m | Max Install Tension | |
|------|------|-----------------------|-----|------|---------|----------------|-----|-----|--------------|---------------------|-----|
| | | min | NOM | max | | min | NOM | max | | kN | kg |
| 16 | 8.0 | 15.6 | 16 | 16.4 | 1.2 | 2 | 2.0 | 2.4 | 84 | 0.19 | 19 |
| | 5.3 | | | | | 2.7 | 3.0 | 3.1 | 118 | 0.24 | 25 |
| 20 | 10.0 | 20 | 20 | 20.3 | 1.2 | 1.8 | 2.0 | 2.2 | 109 | 0.22 | 22 |
| | 8.69 | | | | | 2.3 | 2.3 | 2.7 | 123 | 0.27 | 28 |
| | 6.6 | | | | | 2.7 | 3.0 | 3.1 | 154 | 0.31 | 32 |
| 25 | 12.5 | 25 | 25 | 25.3 | 1.2 | 1.8 | 2.0 | 2.2 | 139 | 0.28 | 28 |
| | 10.9 | | | | | 2.1 | 2.3 | 2.4 | 157 | 0.32 | 33 |
| | 10 | | | | | 2.3 | 2.5 | 2.6 | 170 | 0.36 | 37 |
| | 8.3 | | | | | 2.7 | 3.0 | 3.1 | 199 | 0.41 | 41 |
| | 7.14 | | | | | 3.3 | 3.5 | 3.6 | 227 | 0.51 | 51 |
| 32 | 16 | 32 | 32 | 32.3 | 1.3 | 1.8 | 2.0 | 2.2 | 181 | 0.37 | 37 |
| | 14.5 | | | | | 2.0 | 2.2 | 2.3 | 198 | 0.41 | 41 |
| | 12.8 | | | | | 2.3 | 2.5 | 2.7 | 222 | 0.47 | 47 |
| | 11 | | | | | 2.6 | 2.9 | 3.0 | 250 | TBC | TBC |
| | 10.7 | | | | | 2.7 | 3.0 | 3.1 | 262 | 0.54 | 54 |
| | 4.5 | | | | | 6.8 | 7.0 | 7.3 | 528 | TBC | TBC |
| 40 | 16 | 40 | 40 | 40.4 | 1.4 | 2.2 | 2.5 | 2.7 | 283 | 0.57 | 57 |
| | 13.3 | | | | | 2.7 | 3.0 | 3.1 | 335 | 0.69 | 69 |
| | 11.7 | | | | | 3.1 | 3.4 | 3.5 | 375 | 0.78 | 78 |
| | 10.8 | | | | | 3.7 | 3.7 | 4.1 | 393 | 0.65 | 65 |
| | 10 | | | | | 3.7 | 4.0 | 4.1 | 434 | 0.92 | 92 |
| 50 | 17.8 | 50 | 50 | 50.4 | 1.4 | 2.7 | 2.8 | 3.1 | 399 | 0.87 | 87 |
| | 16.7 | | | | | 2.9 | 3.0 | 3.3 | 425 | 0.93 | 93 |
| | 12.5 | | | | | 3.7 | 4.0 | 4.1 | 555 | 1.17 | 117 |
| | 10.8 | | | | | 4.3 | 4.6 | 4.7 | 630 | 1.34 | 134 |
| 63 | 22.5 | 63 | 63 | 63.5 | 1.5 | 2.7 | 2.8 | 3.1 | 508 | 1.11 | 111 |
| | 16.5 | | | | | 3.7 | 3.8 | 4.2 | 678 | 1.50 | 150 |
| | 12.6 | | | | | 4.9 | 5.0 | 5.4 | 875 | 1.94 | 194 |
| | 10.8 | | | | | 5.8 | 5.8 | 6.5 | 1001 | 2.26 | 226 |

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| Size | SDR | Mean Outside Diameter | | | Ovality | Wall Thickness | | | Mass nom g/m | Max Install Tension | |
|------|-------|-----------------------|-----|-------|---------|----------------|------|------|--------------|---------------------|-----|
| | | min | NOM | max | | min | NOM | max | | kN | kg |
| 75 | 26.7 | 75 | 75 | 75.5 | 1.6 | 2.7 | 2.8 | 3.1 | 610 | 1.33 | 133 |
| | 18.75 | | | | | 3.9 | 4.0 | 4.5 | 857 | 1.89 | 189 |
| | 17.6 | | | | | 4.2 | 4.3 | 4.6 | 916 | 1.95 | 195 |
| | 12.5 | | | | | 5.9 | 6.0 | 6.5 | 1249 | 2.78 | 278 |
| | 11 | | | | | 6.7 | 6.8 | 7.1 | 1399 | 3.12 | 312 |
| 90 | 32 | 90 | 90 | 90.6 | 1.8 | 2.7 | 2.8 | 3.1 | 736 | 1.61 | 161 |
| | 17.6 | | | | | 5.0 | 5.1 | 5.6 | 1306 | 2.90 | 290 |
| | 11.25 | | | | | 7.7 | 8.0 | 8.1 | 1978 | 4.32 | 432 |
| | 10.9 | | | | | 8.1 | 8.2 | 8.6 | 2023 | 4.52 | 452 |
| 110 | 39.3 | 110 | 110 | 111.0 | 2.2 | 2.7 | 2.8 | 3.1 | 905 | 1.97 | 197 |
| | 26.2 | | | | | 4.2 | 4.2 | 4.8 | 1340 | 3.03 | 303 |
| | 16.7 | | | | | 6.5 | 6.6 | 7.0 | 2058 | 4.58 | 458 |
| | 15.5 | | | | | 7.0 | 7.1 | 7.6 | 2203 | 4.91 | 491 |
| | 13.4 | | | | | 8.1 | 8.2 | 8.7 | 2518 | 5.62 | 562 |
| | 11 | | | | | 10.0 | 10.0 | 10.7 | 3016 | 6.81 | 681 |
| 125 | 16.9 | 125 | 125 | 125.8 | 2.5 | 7.3 | 7.4 | 7.9 | 2625 | 585 | 585 |
| | 13.6 | | | | | 9.1 | 9.2 | 9.8 | 3213 | 7.19 | 719 |

For duct sizes up to and including 63mm, low friction liner is present, any size above this, there is no low friction liner present.

Diameters and thicknesses are measured to the nearest 0.1mm. Please note that the ovality will be changed at a coiled product.

The duct shall have dimensions (mm) as defined above.

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

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

where:

OD (outside diameter) and wt (wall thickness) is in mm, and density for cable duct material is 0.96 g/cm³

| Duct Performance | | |
|-------------------------|-------------|---------------------|
| Impact test 5kg | DS EN 61386 | OK |
| Compression | DS EN 61386 | >450N |
| Yield stress | EN ISO 6259 | >17MPa |
| Ring Stiffness | EN ISO 9969 | ≥8kN/m ² |
| Longitudinal reversion | EN ISO 2505 | <3% |
| Coefficient of friction | S201-10150 | ≤0.12 |
| Leak Test | Internal | Pass |

Leak test: Tested in a closed system at min. 6 bar to max. 9 bar (5 min)

Blowing pressure at installation: Short time maximum pressure: 12 bar

Minimum bend radius: 15 x outer diameter

Exposure: The ducts shall be UV stabilised to withstand daylight exposure period of at least 12 months. However, for optimum performance, the duct is best stored for no longer than 6 months if outdoors.

Temperature: Storage and transport between -15°C and +50°C, installation between -15°C and +40°C

Marking: Manufacturers name, dimensions, ID number, date – can be customized

Environmental considerations: Can be disposed to recycling.

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