

SUCTION AND VENTILATING HOSE FOR CORROSIVE MEDIA UP TO +350°F

Master-Clip PTFE-H-EC

Material

Hose wall double layer:

Inner layer: PTFE-film, electrically conductive

Outer layer: Hypalon®-coated polyester fabric

External helix: galvanized steel

Applications

- Dangerous areas, where electrical conductivity is demanded
- Pharmaceutical industry
- Chemical industry
- Paint, wood, and paper industries
- Extraction of corrosive media, explosive gases and vapors
- Under increased mechanical performance
- Solvent extraction
- Low pressure applications
- Areas with raised safety requirements
- Ventilation and suction in accordance with safety requirements

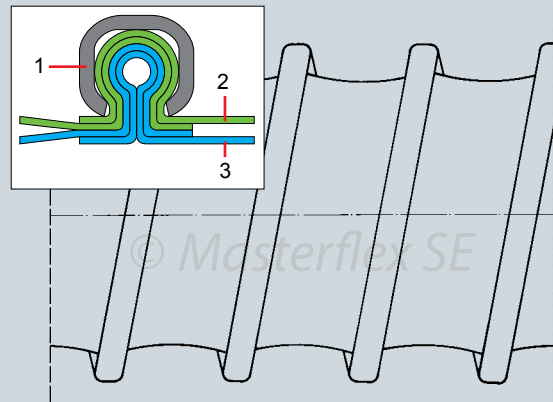
Properties

- **Surface resistance $R_0 < 10^6$ Ohm**
- **Electrically conductive**
- Excellent chemical resistance
- PTFE: harmless to health
- Excellent weather resistance
- High temperature and cold resistant
- Highly flexible
- Extreme compressibility 1:4
- Small bend radius
- Vibration-proof
- Extra strength outer hose wall
- Inner wall with non-stick surface
- Excellent flex fatigue resistance
- Good tear strength
- Good UV/ozone resistance
- Optimum flow characteristics
- External steel helix protects against abrasion
- Special clamping method guarantees high tensile strength between hose material and external helix



Construction

1. External helix
2. Outer layer: Hypalon®-coated polyester fabric
3. Inner layer: PTFE-film, electrically conductive



Temperature Range

- -40°F up to +350°F
- Intermittent to +375°F

Chem. Resistance

See resistance table

Master-Clip PTFE-H-EC

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Weight (lbs./ft.) | Product Code |
|-----------|---------------------|---------------------|-----------------------|-------------------|--------------|
| 2.60 | 273 | 104 | 1.56 | 0.4697 | 261-065-107 |
| 2.80 | 269 | 90 | 1.68 | 0.4697 | 261-070-107 |
| 3.00 | 249 | 78 | 1.80 | 0.5368 | 261-075-107 |
| 3.20 | 245 | 69 | 1.92 | 0.5368 | 261-080-107 |
| 3.50 | 225 | 54 | 2.16 | 0.6039 | 261-090-107 |
| 4.00 | 205 | 44 | 2.40 | 0.6710 | 261-100-107 |
| 4.40 | 193 | 37 | 2.64 | 0.7381 | 261-110-107 |
| 4.80 | 145 | 31 | 2.88 | 0.7381 | 261-120-107 |
| 5.00 | 133 | 28 | 3.00 | 0.8052 | 261-125-107 |
| 5.20 | 113 | 26 | 3.12 | 0.8052 | 261-130-107 |
| 5.60 | 100 | 23 | 3.36 | 0.8723 | 261-140-107 |
| 6.00 | 88 | 20 | 3.60 | 0.8723 | 261-150-107 |
| 6.40 | 84 | 17 | 3.84 | 0.8723 | 261-160-107 |
| 6.80 | 76 | 16 | 4.08 | 0.9394 | 261-170-107 |
| 7.00 | 74 | 15 | 4.20 | 0.9394 | 261-175-107 |
| 7.20 | 69 | 14 | 4.32 | 0.9394 | 261-180-107 |
| 8.00 | 59 | 11 | 4.80 | 1.0736 | 261-200-107 |
| 8.60 | 51 | 10 | 6.04 | 1.2078 | 261-215-107 |
| 9.00 | 46 | 9 | 6.32 | 1.3420 | 261-225-107 |
| 10.00 | 40 | 7 | 7.00 | 1.4091 | 261-250-107 |
| 11.00 | 32 | 6 | 7.72 | 1.5433 | 261-275-107 |
| 12.00 | 28 | 5 | 8.40 | 1.6104 | 261-300-107 |
| 12.60 | 25 | 4 | 8.84 | 1.7446 | 261-315-107 |
| 13.00 | 24 | 4 | 9.12 | 1.8788 | 261-325-107 |
| 14.00 | 23 | 4 | 9.80 | 2.2143 | 261-350-107 |
| 15.00 | 20 | 3 | 10.52 | 2.3485 | 261-375-107 |
| 16.00 | 19 | 3 | 11.20 | 2.5498 | 261-400-107 |
| 18.00 | 18 | 2 | 14.40 | 2.8182 | 261-450-107 |
| 20.00 | 17 | 2 | 16.00 | 3.1537 | 261-500-107 |
| 22.00 | 17 | 2 | 17.60 | 3.5563 | 261-550-107 |
| 24.00 | 16 | 1 | 19.20 | 3.9589 | 261-600-107 |
| 28.00 | 12 | 1 | 22.40 | 4.6299 | 261-700-107 |
| 32.00 | 9 | 1 | 25.60 | 5.0996 | 261-800-107 |
| 36.00 | 6 | 1 | 28.80 | 5.5022 | 261-900-107 |

*Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68° F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Standard Production

- Diameter: 2.6" to 36"
- Color: black
- Standard lengths: 25'

Available on Request

- Special lengths up to 50'
- Custom design with other pitches and helix sizes
- External helix also in stainless steel
- Special diameters metric

Installation and connection possibilities



Clip-Grip special hose clamp



Hose connector



Hose reducer, symmetrical

Masterduct, Inc.
5235 Ted Street
Houston, TX 77040 USA
Tel. +1 713 462-5779
Tel. +1 800 318-3300
Fax +1 713 939-8441
www.Masterduct.com

 **MASTERDUCT**
Connecting Values

090814 Master Clip PTFE H EC