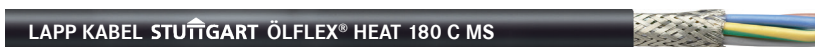


# ÖLFLEX® HEAT 180 MS/180 C MS

High Temperature Silicone Control Cable; North American Approvals



ÖLFLEX® HEAT 180 MS is a high temperature silicone cable with North American approvals. It has a temperature rating of 180°C and is halogen-free. ÖLFLEX® HEAT 180 C MS is a shielded version available with an overall tinned copper braid. This is recommended when electrical interference needs to be suppressed.

### Unshielded Construction

**Conductors:** Finely stranded tinned copper  
**Insulation:** Silicone; cores twisted together  
**Jacket:** Silicone; black

### Shielded Construction

**Conductors:** Finely stranded tinned copper  
**Insulation:** Silicone; cores twisted together  
**Shielding:** Tinned copper braid (85% coverage); plastic foil wrap  
**Jacket:** Silicone; black

### Recommended Applications

Foundries; steel mills; glass factories; furnaces; commercial baking equipment; other high-temperature applications

### Approvals



### Application Advantage

- Rated for use up to 180°C and can handle rapid increases in heat
- Excellent low temperature rating of -50°C
- Passes FT1 vertical flame test
- Halogen-free & UV-resistant jacket
- Resistant to various oils, alcohols, vegetable & animal fats, and chemical substances

| Cable Attributes |       | page 640 |       |
|------------------|-------|----------|-------|
| OIL              | OR-02 | FLAME    | FR-02 |
| MOTION           | FL-01 | MECH.    | MP-01 |

| Complete the Installation             |                                 |
|---------------------------------------|---------------------------------|
| SKINTOP® CN<br>High Temp.<br>page 522 | EPIC®<br>Connectors<br>page 280 |

### Technical Data

|   |  |
|---|--|
| <b>Minimum Bend Radius:</b><br>- unshielded: 4 x cable diameter<br>- shielded: 6 x cable diameter | <b>Conductor Stranding:</b> Class 5 fine wire  |
| <b>Temperature Range:</b><br>- UL: -50°C to +150°C<br>- VDE: -50°C to +180°C                      | <b>Color Code:</b><br>- up to 5c: VDE 0293-308: Chart 6, page 673<br>- 6c & higher: Black with white numbers, plus green/yellow ground |
| <b>Nominal Voltage:</b> 600V  | <b>Approvals:</b><br>UL: AWM 4476<br>Attributes: NFPA 79<br>Canada: cRU AWM II A/B FT1<br>Additional: CE & RoHS                        |
| <b>Test Voltage:</b> 2000V  |  |

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question. For current information go to our website.

ÖLFLEX® HEAT 180 MS

| Part Number                         | Number of Conductors (incl. ground) | Nominal Outer Diameter (in) (mm) |      | Copper Weight (lbs/mft) | Approx. Weight (lbs/mft) | SKINDICHT® CN PG Thread | Part Number                         | Number of Conductors (incl. ground) | Nominal Outer Diameter (in) (mm) |      | Copper Weight (lbs/mft) | Approx. Weight (lbs/mft) | SKINDICHT® CN PG Thread |
|-------------------------------------|-------------------------------------|----------------------------------|------|-------------------------|--------------------------|-------------------------|-------------------------------------|-------------------------------------|----------------------------------|------|-------------------------|--------------------------|-------------------------|
| <b>20 AWG (0.50 mm<sup>2</sup>)</b> |                                     |                                  |      |                         |                          |                         | <b>14 AWG (2.50 mm<sup>2</sup>)</b> |                                     |                                  |      |                         |                          |                         |
| 0046600*                            | 2                                   | 0.292                            | 7.4  | 7                       | 45                       | 52032520                | 0046628*                            | 2                                   | 0.378                            | 9.6  | 33                      | 91                       | 52032525                |
| 0046601                             | 3                                   | 0.307                            | 7.8  | 10                      | 52                       | 52032520                | 0046629                             | 3                                   | 0.402                            | 10.2 | 49                      | 111                      | 52032525                |
| 00466023                            | 4                                   | 0.335                            | 8.5  | 14                      | 62                       | 52032520                | 00466303                            | 4                                   | 0.437                            | 11.1 | 65                      | 137                      | 52032540                |
| 00466033                            | 5                                   | 0.362                            | 9.2  | 17                      | 74                       | 52032525                | 00466313                            | 5                                   | 0.481                            | 12.2 | 81                      | 167                      | 52032540                |
| 0046604                             | 7                                   | 0.390                            | 9.9  | 24                      | 88                       | 52032525                | <b>12 AWG (4 mm<sup>2</sup>)</b>    |                                     |                                  |      |                         |                          |                         |
| <b>18 AWG (1.00 mm<sup>2</sup>)</b> |                                     |                                  |      |                         |                          |                         | 0046633                             | 3                                   | 0.453                            | 11.5 | 78                      | 165                      | 52032540                |
| 0046612*                            | 2                                   | 0.323                            | 8.2  | 13                      | 58                       | 52032520                | 00466343                            | 4                                   | 0.496                            | 12.6 | 104                     | 206                      | 52032540                |
| 0046613                             | 3                                   | 0.343                            | 8.7  | 20                      | 68                       | 52032520                | 00466353                            | 5                                   | 0.559                            | 14.2 | 130                     | 261                      | 52032560                |
| 00466143                            | 4                                   | 0.370                            | 9.4  | 26                      | 83                       | 52032525                | <b>10 AWG (6 mm<sup>2</sup>)</b>    |                                     |                                  |      |                         |                          |                         |
| 00466153                            | 5                                   | 0.406                            | 10.3 | 33                      | 99                       | 52032525                | 0046636                             | 3                                   | 0.587                            | 14.9 | 116                     | 246                      | 52032560                |
| 0046616                             | 7                                   | 0.437                            | 11.1 | 46                      | 121                      | 52032540                | 00466373                            | 4                                   | 0.646                            | 16.4 | 155                     | 308                      | 52032560                |
| 0046617                             | 12                                  | 0.587                            | 14.9 | 78                      | 214                      | 52032560                | 00466383                            | 5                                   | 0.709                            | 18.0 | 194                     | 378                      | 52032560                |
| <b>16 AWG (1.50 mm<sup>2</sup>)</b> |                                     |                                  |      |                         |                          |                         |                                     |                                     |                                  |      |                         |                          |                         |
| 0046618*                            | 2                                   | 0.347                            | 8.8  | 20                      | 70                       | 52032520                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046619                             | 3                                   | 0.366                            | 9.3  | 30                      | 84                       | 52032525                |                                     |                                     |                                  |      |                         |                          |                         |
| 00466203                            | 4                                   | 0.398                            | 10.1 | 39                      | 103                      | 52032525                |                                     |                                     |                                  |      |                         |                          |                         |
| 00466213                            | 5                                   | 0.437                            | 11.1 | 49                      | 124                      | 52032540                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046622                             | 7                                   | 0.473                            | 12.0 | 69                      | 153                      | 52032540                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046623                             | 12                                  | 0.634                            | 16.1 | 117                     | 272                      | 52032560                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046625                             | 18                                  | 0.741                            | 18.8 | 175                     | 381                      | 52032560                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046626                             | 25                                  | 0.902                            | 22.9 | 242                     | 562                      | 52032570                |                                     |                                     |                                  |      |                         |                          |                         |

\* 2c cable does not include ground

ÖLFLEX® HEAT 180 C MS

| Part Number                         | Number of Conductors (incl. ground) | Nominal Outer Diameter (in) (mm) |      | Copper Weight (lbs/mft) | Approx. Weight (lbs/mft) | SKINDICHT® CN PG Thread | Part Number                         | Number of Conductors (incl. ground) | Nominal Outer Diameter (in) (mm) |      | Copper Weight (lbs/mft) | Approx. Weight (lbs/mft) | SKINDICHT® CN PG Thread |
|-------------------------------------|-------------------------------------|----------------------------------|------|-------------------------|--------------------------|-------------------------|-------------------------------------|-------------------------------------|----------------------------------|------|-------------------------|--------------------------|-------------------------|
| <b>20 AWG (0.50 mm<sup>2</sup>)</b> |                                     |                                  |      |                         |                          |                         | <b>14 AWG (2.50 mm<sup>2</sup>)</b> |                                     |                                  |      |                         |                          |                         |
| 0046701                             | 3                                   | 0.339                            | 8.6  | 30                      | 67                       | 52032520                | 0046728                             | 3                                   | 0.433                            | 11.0 | 78                      | 132                      | 52032525                |
| 0046702                             | 4                                   | 0.366                            | 9.3  | 38                      | 82                       | 52032525                | 0046729                             | 4                                   | 0.469                            | 11.9 | 99                      | 164                      | 52032540                |
| 0046703                             | 5                                   | 0.394                            | 10.0 | 41                      | 92                       | 52032525                | 0046730                             | 5                                   | 0.508                            | 12.9 | 120                     | 196                      | 52032540                |
| <b>18 AWG (1.00 mm<sup>2</sup>)</b> |                                     |                                  |      |                         |                          |                         | <b>12 AWG (4 mm<sup>2</sup>)</b>    |                                     |                                  |      |                         |                          |                         |
| 0046708*                            | 2                                   | 0.355                            | 9.0  | 33                      | 70                       | 52032520                | 0046734                             | 3                                   | 0.485                            | 12.3 | 112                     | 175                      | 52032540                |
| 0046709                             | 3                                   | 0.374                            | 9.5  | 44                      | 88                       | 52032525                | 0046735                             | 4                                   | 0.528                            | 13.4 | 143                     | 218                      | 52032540                |
| 0046710                             | 4                                   | 0.402                            | 10.2 | 51                      | 102                      | 52032525                | 0046736                             | 5                                   | 0.587                            | 14.9 | 173                     | 261                      | 52032560                |
| 0046711                             | 5                                   | 0.433                            | 11.0 | 62                      | 122                      | 52032525                | <b>10 AWG (6 mm<sup>2</sup>)</b>    |                                     |                                  |      |                         |                          |                         |
| 0046712                             | 7                                   | 0.469                            | 11.9 | 80                      | 153                      | 52032540                | 0046740                             | 4                                   | 0.678                            | 17.2 | 204                     | 324                      | 52032560                |
| <b>16 AWG (1.50 mm<sup>2</sup>)</b> |                                     |                                  |      |                         |                          |                         | 0046741                             | 5                                   | 0.737                            | 18.7 | 248                     | 390                      | 52032560                |
| 0046716*                            | 2                                   | 0.378                            | 9.6  | 44                      | 85                       | 52032525                | <b>8 AWG (10 mm<sup>2</sup>)</b>    |                                     |                                  |      |                         |                          |                         |
| 0046717                             | 3                                   | 0.398                            | 10.1 | 54                      | 102                      | 52032525                | 0046742                             | 4                                   | 0.898                            | 22.8 | 342                     | 539                      | 52032570                |
| 0046718                             | 4                                   | 0.429                            | 10.9 | 68                      | 125                      | 52032525                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046719                             | 5                                   | 0.465                            | 11.8 | 83                      | 149                      | 52032540                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046720                             | 7                                   | 0.504                            | 12.8 | 107                     | 189                      | 52032540                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046721                             | 12                                  | 0.666                            | 16.9 | 165                     | 290                      | 52032560                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046723                             | 18                                  | 0.772                            | 19.6 | 233                     | 403                      | 52032570                |                                     |                                     |                                  |      |                         |                          |                         |
| 0046724                             | 25                                  | 0.942                            | 23.9 | 334                     | 560                      | 52032570                |                                     |                                     |                                  |      |                         |                          |                         |

\* 2c cable does not include ground

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values. For current information go to our website.