



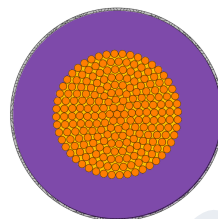
TEBAOFLEX CABLE

## DATA SHEET

Mining&Industrial cable

### UL 1815 PTFE 250 C 300 V WIRE

High-temperature PTFE insulated appliance wire



#### APPLICATION

300 V PTFE wire for internal wiring of appliances and electronic equipment, rated for continuous use up to 250 C.

#### KEY FEATURES

| Parameter          | Value                                                                    |
|--------------------|--------------------------------------------------------------------------|
| Application        | Internal wiring of appliances and electronic equipment                   |
| Voltage rating     | 300 V                                                                    |
| Temperature rating | 250 deg C                                                                |
| Protection         | PTFE insulation with excellent flame, corrosion and radiation resistance |

#### DESIGN

| Parameter    | Value                                                      |
|--------------|------------------------------------------------------------|
| Conductor    | Silver-plated or nickel-plated copper                      |
| Insulation   | PTFE fluoropolymer                                         |
| Performance  | Good mechanical strength, flexibility and twist resistance |
| Construction | Available in SAE color series                              |

#### ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

| Parameter          | Value                                              |
|--------------------|----------------------------------------------------|
| Voltage rating     | 300 V                                              |
| Temperature rating | 250 deg C                                          |
| Insulation         | PTFE fluoropolymer                                 |
| Conductor          | Silver-plated or nickel-plated copper              |
| Standard           | UL AWM Style 1815; UL758-2010; UL1581-2009         |
| Flame rating       | VW-1                                               |
| Environmental      | RoHS/REACH compliant                               |
| Application        | Appliance and electronic equipment internal wiring |

# TECHNICAL DATA

| UL 1815 - DIMENSIONS AND ELECTRICAL DATA |           |                  |                     |                    |                      |
|------------------------------------------|-----------|------------------|---------------------|--------------------|----------------------|
| AWG                                      | Stranding | Cond. dia.<br>mm | Insul.<br>thickness | Overall dia.<br>mm | Resistance<br>ohm/km |
| 10                                       | 37/0.42   | 3.01             | 0.33 / 0.30         | 3.60               | 3.54                 |
| 12                                       | 37/0.374  | 2.62             | 0.33 / 0.30         | 3.28               | 5.64                 |
| 14                                       | 19/0.361  | 1.85             | 0.33 / 0.30         | 2.55               | 8.96                 |
| 16                                       | 19/0.287  | 1.50             | 0.33 / 0.30         | 2.15               | 14.60                |
| 18                                       | 19/0.235  | 1.18             | 0.33 / 0.30         | 1.85               | 23.20                |
| 18                                       | 7/0.39    | 1.19             | 0.33 / 0.30         | 1.85               | 23.20                |
| 20                                       | 1/0.813   | 0.813            | 0.33 / 0.30         | 1.47               | 35.20                |
| 20                                       | 19/0.19   | 0.95             | 0.33 / 0.30         | 1.62               | 36.70                |
| 22                                       | 19/0.15   | 0.76             | 0.33 / 0.30         | 1.40               | 59.40                |
| 24                                       | 7/0.20    | 0.63             | 0.33 / 0.30         | 1.28               | 94.20                |
| 26                                       | 7/0.16    | 0.48             | 0.33 / 0.30         | 1.15               | 150.00               |
| 28                                       | 1/0.32    | 0.32             | 0.33 / 0.30         | 0.98               | 227.00               |
| 28                                       | 7/0.127   | 0.40             | 0.33 / 0.30         | 1.05               | 239.00               |
| 30                                       | 1/0.254   | 0.254            | 0.33 / 0.30         | 0.92               | 361.00               |

| CONSTRUCTION AND APPLICATION NOTES |                                                                |
|------------------------------------|----------------------------------------------------------------|
| Parameter                          | Value                                                          |
| Conductor                          | Silver-plated or nickel-plated copper                          |
| Insulation                         | PTFE fluoropolymer                                             |
| Voltage rating                     | 300 V                                                          |
| Temperature rating                 | 250 deg C                                                      |
| Standards                          | UL AWM Style 1815; UL758; UL1581; VW-1                         |
| Environment                        | RoHS/REACH compliant                                           |
| Note                               | Dimensions are nominal and subject to manufacturing tolerances |

## CERTIFICATIONS



TEBAOFLEX CABLE