

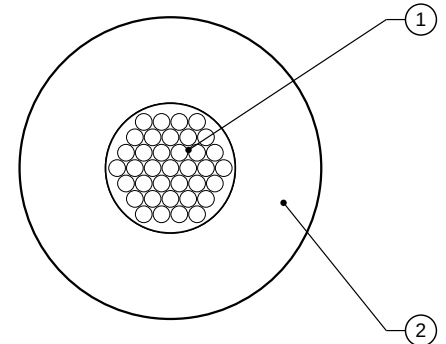
# Silicone Hook-Up Wire - AWG Constructions

AWG SERIES | CONSTRUCTION-SPECIFIC RATINGS

## CONSTRUCTION & TECHNICAL DATA

|                                         |                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------|
| Size range                              | 2-28 AWG in the fine-stranded range; additional constructions on following pages. |
| Number of cores                         | 1                                                                                 |
| Conductor material                      | Tinned copper                                                                     |
| Insulation                              | Silicone rubber                                                                   |
| Rated voltage                           | 600 V                                                                             |
| Continuous temperature                  | -60°C to +180°C                                                                   |
| Minimum bend radius, fixed installation | 6 × outside diameter                                                              |

## CONSTRUCTION SECTION



1. Stranded tinned-copper conductor
2. Silicone rubber insulation

Representative section, not to scale. Strand count and packing, core positions and layer proportions are schematic.

## FINE-STRANDED TINNED-COPPER RANGE - 600 V

| Cores | Size / core | Nominal OD (mm) | Construction / variant                 |
|-------|-------------|-----------------|----------------------------------------|
| 1     | 28 AWG      | 1.2             | 16 × 0.08 mm; 600 V; -60°C to +180°C   |
| 1     | 26 AWG      | 1.5             | 30 × 0.08 mm; 600 V; -60°C to +180°C   |
| 1     | 24 AWG      | 1.6             | 40 × 0.08 mm; 600 V; -60°C to +180°C   |
| 1     | 22 AWG      | 1.7             | 60 × 0.08 mm; 600 V; -60°C to +180°C   |
| 1     | 20 AWG      | 1.8             | 100 × 0.08 mm; 600 V; -60°C to +180°C  |
| 1     | 18 AWG      | 2.3             | 150 × 0.08 mm; 600 V; -60°C to +180°C  |
| 1     | 16 AWG      | 3               | 252 × 0.08 mm; 600 V; -60°C to +180°C  |
| 1     | 14 AWG      | 3.5             | 400 × 0.08 mm; 600 V; -60°C to +180°C  |
| 1     | 12 AWG      | 4.5             | 680 × 0.08 mm; 600 V; -60°C to +180°C  |
| 1     | 10 AWG      | 5.5             | 1050 × 0.08 mm; 600 V; -60°C to +180°C |
| 1     | 8 AWG       | 6.5             | 1650 × 0.08 mm; 600 V; -60°C to +180°C |
| 1     | 6 AWG       | 8.5             | 3200 × 0.08 mm; 600 V; -60°C to +180°C |
| 1     | 4 AWG       | 10.5            | 5000 × 0.08 mm; 600 V; -60°C to +180°C |
| 1     | 2 AWG       | 12.5            | 7000 × 0.08 mm; 600 V; -60°C to +180°C |

Dimensions and weights are reference values. Final construction, tolerances, ratings, colours and supply requirements are subject to the agreed order specification.

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# Silicone Hook-Up Wire - AWG Constructions

ADDITIONAL CONSTRUCTIONS | RATINGS APPLY TO THE NAMED VARIANT ONLY

## 13 AWG SILICONE WIRE

| Wire size            | 13 AWG          |                 |                                |
|----------------------|-----------------|-----------------|--------------------------------|
| Number of cores      | 1               |                 |                                |
| Conductor            | Tinned copper   |                 |                                |
| Stranding            | 500 × 0.08 mm   |                 |                                |
| Insulation           | Silicone rubber |                 |                                |
| Conductor diameter   | 2.05 mm         |                 |                                |
| Insulation thickness | 1.0 mm          |                 |                                |
| Outside diameter     | 4.0 mm          |                 |                                |
| Rated voltage        | 600 V           |                 |                                |
| Temperature range    | -60°C to +200°C |                 |                                |
| Cores                | Size / core     | Nominal OD (mm) | Construction / variant         |
| 1                    | 13 AWG          | 4               | 500 × 0.08 mm; -60°C to +200°C |

## 30 AWG SILICONE WIRE

| Wire size            | 30 AWG          |                 |                        |
|----------------------|-----------------|-----------------|------------------------|
| Conductor            | Tinned copper   |                 |                        |
| Insulation           | Silicone rubber |                 |                        |
| Stranding            | 11 × 0.08 mm    |                 |                        |
| Conductor diameter   | 0.31 mm         |                 |                        |
| Insulation thickness | 0.25 mm         |                 |                        |
| Outside diameter     | 0.8 mm          |                 |                        |
| Rated voltage        | 600 V           |                 |                        |
| Temperature rating   | 200°C           |                 |                        |
| Cores                | Size / core     | Nominal OD (mm) | Construction / variant |
| 1                    | 30 AWG          | 0.8             | 600 V; 200°C           |

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# Silicone Hook-Up Wire - AWG Constructions

ADDITIONAL CONSTRUCTIONS | RATINGS APPLY TO THE NAMED VARIANT ONLY

## 1 AWG SILICONE WIRE

| Wire size          | 1 AWG                                                             |                 |                                    |
|--------------------|-------------------------------------------------------------------|-----------------|------------------------------------|
| Number of cores    | 1                                                                 |                 |                                    |
| Conductor          | Copper or tinned copper; conductor finish to order specification. |                 |                                    |
| Stranding          | 212 × 0.5 mm                                                      |                 |                                    |
| Insulation         | Silicone rubber                                                   |                 |                                    |
| Outside diameter   | 10.0 ± 0.5 mm                                                     |                 |                                    |
| Rated voltage      | 300 V                                                             |                 |                                    |
| Temperature rating | 150°C                                                             |                 |                                    |
| Cores              | Size / core                                                       | Nominal OD (mm) | Construction / variant             |
| 1                  | 1 AWG                                                             | 10              | 300 V; 150°C; OD tolerance ±0.5 mm |

## 32 AWG SILICONE WIRE

| Wire size                  | 32 AWG                   |                 |                                                             |
|----------------------------|--------------------------|-----------------|-------------------------------------------------------------|
| Conductor                  | Bare copper              |                 |                                                             |
| Strand count               | 65                       |                 |                                                             |
| Individual strand diameter | 0.0010 in                |                 |                                                             |
| Conductor diameter         | 0.009 in                 |                 |                                                             |
| Nominal insulation wall    | 0.010 in (0.254 mm)      |                 |                                                             |
| Nominal outside diameter   | 0.029 in (0.7366 mm)     |                 |                                                             |
| Rated voltage              | 600 V                    |                 |                                                             |
| Temperature range          | -75°C to +150°C          |                 |                                                             |
| Insulation                 | Extruded silicone rubber |                 |                                                             |
| Cores                      | Size / core              | Nominal OD (mm) | Construction / variant                                      |
| 1                          | 32 AWG                   | 0.7366          | 65 × 0.0010 in; nominal OD 0.029 in; 600 V; -75°C to +150°C |

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