# CU MEDIUM-HARD DRAWN OVERHEAD CATENARY SYSTEMS MESSENGER WIRE

Messenger Wire for Transit Systems



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Stranded bare copper per ASTM B2 and B8

## APPLICATIONS AND FEATURES:

For use in Trolley and High Speed Rail applications as supports for contact and dropper wires in overhead catenary systems. Southwire's messenger wire is designed for long service life with the ability to maintain rugged strength through sustained performance.

- Pure copper
- Flexible to Wind and Vibration
- Durable and reliable support
- Mechanically rugged
- High Tensile Strength and Breaking Load
- RoHS/Proposition 65 Compliant

## SPECIFICATIONS:

- ASTM B2 Medium-Hard Drawn Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors


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## Table 1 – Physical and Electrical Data

| Stock Number | Cond. Size | Strand Class | Strand Count | Cond. Cmil | Approx. OD | Approx. Weight | DC Resistance @ 25°C | Rated Strength |
|---|---|---|---|---|---|---|---|---|
| | AWG/kcmil | | No. of Strands | cmil | inch | lb/1000ft | Ω/1000ft | lb |
| TBA | 8 | B | 7 | 16510 | 0.146 | 51 | 0.663 | 610 |
| 106393 | 6 | SOLID | SOLID | 26240 | 0.162 | 81 | 0.417 | 959 |
| 106666 | 6 | B | 7 | 26240 | 0.184 | 81 | 0.417 | 959 |
| 106757 | 4 | A B | 7 | 41740 | 0.232 | 129 | 0.262 | 1505 |
| TBA | 3 | A B | 7 | 52620 | 0.26 | 163 | 0.208 | 1885 |
| 106872 | 2 | A B | 7 | 66360 | 0.292 | 205 | 0.165 | 2360 |
| 106930 | 1 | A | 7 | 83690 | 0.328 | 258 | 0.131 | 2955 |
| 106963 | 1/0 | A AA | 7 | 105600 | 0.368 | 326 | 0.104 | 3705 |
| TBA | 1/0 | B | 19 | 105600 | 0.373 | 326 | 0.104 | 3705 |
| 106997 | 2/0 | A AA | 7 | 133100 | 0.414 | 411 | 0.082 | 4640 |
| 144105 | 2/0 | B | 19 | 133100 | 0.418 | 411 | 0.082 | 4765 |
| 107029 | 3/0 | A AA | 7 | 167800 | 0.464 | 518 | 0.065 | 5812 |
| 107052 | 4/0 | A AA | 7 | 211600 | 0.522 | 653 | 0.052 | 7278 |
| 135186 | 4/0 | B | 19 | 211600 | 0.528 | 653 | 0.052 | 7479 |
| TBA | 250 | A | 19 | 250000 | 0.574 | 772 | 0.044 | 8836 |
| TBA | 250 | B | 37 | 250000 | 0.575 | 772 | 0.044 | 8952 |
| TBA | 300 | A | 19 | 300000 | 0.628 | 926 | 0.037 | 10530 |
| 107144 | 350 | A | 19 | 350000 | 0.679 | 1081 | 0.031 | 12200 |
| 185231 | 350 | B | 37 | 350000 | 0.681 | 1081 | 0.03 | 12287 |
| TBA | 500 | A | 19 | 500000 | 0.814 | 1544 | 0.022 | 17550 |
| 107201 | 500 | B | 37 | 500000 | 0.814 | 1544 | 0.022 | 17550 |
| TBA | 600 | A AA | 37 | 600000 | 0.891 | 1853 | 0.018 | 21060 |
| 107268 | 750 | A B | 61 | 750000 | 0.998 | 2316 | 0.015 | 26510 |
| 107292 | 1000 | A B | 61 | 1000000 | 1.152 | 3088 | 0.011 | 35100 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
• TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.


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