



# CU MEDIUM-HARD DRAWN OVERHEAD CATENARY SYSTEMS MESSENGER WIRE

Messenger Wire for Transit Systems



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

This product can be made in variations of Hard Drawn or Medium-Hard Drawn Copper with concentric or unilay stranding options. Tinned coated copper and Proof Positive™ anti-theft conductors are also available upon request.

## 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
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B787 19 Wire Combination Unilay-Stranded Copper Conductors





**Table 1 – Physical and Electrical Data**

Stock Number	Cond. Size AWG/kcmil	Strand Class	Strand Count No. of Strands	Cond. Cmil cmil	Approx. OD inch	Approx. Weight lb/1000ft	DC Resistance @ 25°C Ω/1000ft	Rated Strength lb
TBA	8	B	7	16510	0.146	51	0.663	610
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	0.260	163	0.208	1885
106872	2	A B	7	66360	0.292	205	0.165	2360
TBA	1	A	7	83690	0.328	258	0.131	2955
TBA	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	0.030	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

**Notes:**

+Ampacity based on 75°C conductor temperature 25°C ambient temperature 2 ft./sec. wind in sun. Numbers shown above are for concentrically stranded constructions and may vary slightly for combination unilay stranded constructions. Dimensions and weights shown above are nominal and subject to industry tolerances.

