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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