

# NYLON INSULATED COPPER TUBE LUGS ANE-M FINE STRANDED

*for extra flexible copper conductors*

These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.

ANE-M series lugs are manufactured from electrolytic copper tube Cu-OF CW008A conform to UNI EN 13600.

The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.

It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing.

Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.

The operating temperature range is – 4 to + 239°F (Surge + 266°F).

In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.



## CONDUCTOR TABLES IEC 60228:2004-11

### CLASS 5

Nominal cross-sectional mm <sup>2</sup>	Maximum diameter of wires in conductor mm	Maximum resistance of conductor at 20 °C	
		Plain wires [Ω/km]	Metal-coated wires [Ω/km]
0,5	0,21	39	40,1
0,75	0,21	26	26,7
1	0,21	19,5	20
1,5	0,26	13,3	13,7
2,5	0,26	7,98	8,21
4	0,31	4,95	5,09
6	0,31	3,3	3,39

10	0,41	1,91	1,95
16	0,41	1,21	1,24
25	0,41	0,78	0,795
35	0,41	0,554	0,565
50	0,41	0,386	0,393
70	0,51	0,272	0,277
95	0,51	0,206	0,21
120	0,51	0,161	0,164
150	0,51	0,129	0,132
185	0,51	0,106	0,108
240	0,51	0,08	0,081
300	0,51	0,064	0,065
400	0,51	0,048	0,049
500	0,61	0,038	0,039
630	0,61	0,028	0,029

## CLASS 6

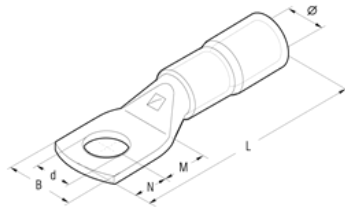
Sezione nominale mm <sup>2</sup>	Diametro massimo dei fili mm	Resistenza massima del conduttore a 20 °C	
		Fili nudi [Ohm/km]	Fili rivestiti [Ohm/km]
0,5	0,16	39	40,1
0,75	0,16	26	26,7
1	0,16	19,5	20
1,5	0,16	13,3	13,7

2,5	0,16	7,98	8,21
4	0,16	4,95	5,09
6	0,21	3,3	3,39
10	0,21	1,91	1,95
16	0,21	1,21	1,24
25	0,21	0,78	0,795
35	0,21	0,554	0,565
50	0,31	0,386	0,393
70	0,31	0,272	0,277
95	0,31	0,206	0,21
120	0,31	0,161	0,164
150	0,31	0,129	0,132
185	0,41	0,106	0,108
240	0,41	0,08	0,081
300	0,41	0,064	0,065

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## *Technical characteristics*

Min operating temperature range	-4 °F
Max operating temperature range	239 °F
Max operating temperature range (surge)	266 °F
Material (Body)	Electrolytic copper
Material (fully insulated)	Polyamide PA6.6



# NYLON INSULATED COPPER TUBE LUGS ANE-M FINE STRANDED

## List of products

### ANE9-M *Cable type: extra-flexible copper, Maximum section: 2 AWG*



Type	Ø	B	N	M	L	d	Pack qty	Min. pack qty	Maximum diameter of the stripped cable
ANE9-M6/15	0.54 in.	0.59 in.	0.28 in.	0.31 in.	2.13 in.	0.25 in.	150	50	
ANE9-M8	0.54 in.	0.67 in.	0.31 in.	0.35 in.	2.2 in.	0.33 in.	150	50	
ANE9-M10	0.54 in.	0.73 in.	0.39 in.	0.43 in.	2.36 in.	0.41 in.	150	50	
ANE9-M12	0.54 in.	0.83 in.	0.47 in.	0.55 in.	2.56 in.	0.52 in.	150	50	

### ANE12-M *Cable type: extra-flexible copper, Maximum section: 1/0 AWG*



Type	B	L	Ø	d	Pack qty	Min. pack qty	M	N	Internal diameter
ANE12-M6/15	0.59 in.	2.34 in.	0.62 in.	0.25 in.	50	25	0.31 in.	0.28 in.	
ANE12-M8	0.78 in.	2.42 in.	0.62 in.	0.33 in.	50	25	0.35 in.	0.31 in.	
ANE12-M10	0.78 in.	2.58 in.	0.62 in.	0.41 in.	100	25	0.43 in.	0.39 in.	
ANE12-M10/19	0.75 in.	2.58 in.	0.62 in.	0.41 in.	100	25	0.43 in.	0.39 in.	
ANE12-M12	0.87 in.	2.78 in.	0.62 in.	0.52 in.	50	25	0.55 in.	0.47 in.	

## ANE17-M *Cable type: extra-flexible copper, Maximum section: 2/0 AWG*



Type	Ø	B	N	M	L	d	Pack qty	Min. pack qty	Internal diameter
ANE17-M6	0.7 in.	0.91 in.	0.28 in.	0.31 in.	2.51 in.	0.25 in.	100	25	
ANE17-M8	0.7 in.	0.91 in.	0.31 in.	0.35 in.	2.59 in.	0.33 in.	50	25	
ANE17-M10	0.7 in.	0.91 in.	0.39 in.	0.43 in.	2.75 in.	0.41 in.	50	25	
ANE17-M10/19	0.7 in.	0.75 in.	0.39 in.	0.43 in.	2.75 in.	0.41 in.	100	25	
ANE17-M12	0.7 in.	0.91 in.	0.47 in.	0.55 in.	2.94 in.	0.52 in.	50	25	
ANE17-M14	0.7 in.	0.98 in.	0.47 in.	0.61 in.	3 in.	0.59 in.	50	25	
ANE17-M16	0.7 in.	1.06 in.	0.53 in.	0.65 in.	3.1 in.	0.67 in.	50	25	

## ANE20-M *Cable type: extra-flexible copper, Maximum section: 3/0 AWG*



Type	Ø	B	N	M	L	d	Pack qty	Min. pack qty
ANE20-M8	0.79 in.	1.06 in.	0.31 in.	0.35 in.	2.78 in.	0.33 in.	50	25
ANE20-M10	0.79 in.	1.06 in.	0.39 in.	0.43 in.	2.94 in.	0.41 in.	50	25
ANE20-M12	0.79 in.	1.06 in.	0.47 in.	0.55 in.	3.13 in.	0.52 in.	50	25
ANE20-M14	0.79 in.	1.06 in.	0.47 in.	0.61 in.	3.19 in.	0.59 in.	50	25
ANE20-M16	0.79 in.	1.06 in.	0.53 in.	0.65 in.	3.29 in.	0.67 in.	50	25

## ANE29-M *Cable type: extra-flexible copper, Maximum section: 250 MCM*



Type	Ø	B	N	M	L	d	Pack qty	Min. pack qty
ANE29-M10	0.88 in.	1.18 in.	0.39 in.	0.43 in.	3.21 in.	0.41 in.	30	15
ANE29-M12	0.88 in.	1.18 in.	0.47 in.	0.55 in.	3.41 in.	0.52 in.	50	25
ANE29-M14	0.88 in.	1.18 in.	0.47 in.	0.61 in.	3.48 in.	0.59 in.	50	25
ANE29-M16	0.88 in.	1.18 in.	0.53 in.	0.65 in.	3.56 in.	0.67 in.	50	25
ANE29-M20	0.88 in.	1.18 in.	0.79 in.	0.87 in.	4.04 in.	0.83 in.	40	20

**ANE35-M** Cable type: extra-flexible copper, Maximum section: 300 MCM



Type	Ø	B	N	M	L	d	Pack qty	Min. pack qty
ANE35-M12	0.98 in.	1.35 in.	0.55 in.	0.55 in.	3.74 in.	0.52 in.	30	15
ANE35-M14	0.98 in.	1.35 in.	0.63 in.	0.61 in.	3.9 in.	0.59 in.	30	15
ANE35-M16	0.98 in.	1.35 in.	0.67 in.	0.65 in.	3.98 in.	0.67 in.	30	15
ANE35-M20	0.98 in.	1.35 in.	0.79 in.	0.87 in.	4.21 in.	0.83 in.	30	15