

COPPER CONDUCTORS OF ROUND CROSS-SECTION

**Copper Conductors of round cross-section (round copper bar), ambient temperature 35°C, conductor temperature 65°C,
with alternating current, phase centre-line distance $\geq 2 \times$ diameter**

Diameter	Cross Section	Weight ¹	Material ²	Continuous Current in A d.c. and a.c. up to 60Hz	
				Painted	Bare
mm	mm	mm ²	kg/m		
5	19.6	0.175	E-Cu F 37	95	85
8	50.3	0.447	E-Cu F 37	179	159
10	78.5	0.699	E-Cu F 37	243	213
16	210	1.79	E-Cu F 30	464	401
20	314	2.80	E-Cu F 30	629	539
32	804	7.16	E-Cu F 30	1160	976
50	1960	17.50	E-Cu F 30	1930	1610

¹ Calculated for a density of 8.9kg/dm³.

² Material: E-Cu or other material to DIN 40 500 Sheet 3; semi-finished material to be used:
round bars to DIN 1756.