

## C64750

Application Range									
In the electronics sector, its excellent conductivity and corrosion resistance make it ideal for manufacturing connection components such as integrated circuit lead frames, ensuring efficient and stable signal transmission in complex operating environments. In automotive manufacturing, its superior thermal conductivity supports applications in cooling and electrical systems.									
Physical Properties						Chemical Position (reference value) %			
Density *		g/cm <sup>3</sup>	8.8	Cu		Rest	Fe	Max.1.0	
Electr. conductivity ***		MS/m	23.2	Ni		1.0-3.0	Zr	Max.0.1	
Electr. conductivity ***		IACS (%)	40	Si		0.1-0.7	P	Max.0.1	
Modulus of elasticity *		Gpa	130	Sn		0.05-0.8	Mg	Max.0.1	
				Zn		Max.1.0			
Temper class	Tensile strength	Yield strength	Elongation	Hardness	Electr. Conductivity	Bendability		Bendability	
	T.S. min. - max. MPa	Rp 0.2 min. Mpa	A50 min. %	(reference value) HV		R/t 90°		R/t 180°	
						GW Strip thickness ≤0.5mm	BW Strip thickness ≤0.5mm	GW Strip thickness ≤0.5mm	BW Strip thickness ≤0.5mm
R500	500-590	450	8	150-180	23.2	0	0	0	0.5
R600	600-670	540	8	175-200	23.2	0.5	0.5	1	1
R680	680-820	650-800	3	190-255	23.2	1	1	2	2

\*Reference values at room temperature

\*\*Between 20 and 300 °C

\*\*\* Values for the lowest temper class

1)  $r = x \cdot t$  (strips up to  $t = 0.50$  mm)

2) Sample width = 10 mm / bending at smaller bending widths on request (Evaluation according to page 5.4.2. of Hand-Out)

3) Valid only as thermal stress relieved qualities

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