

Chemical Compositions															
MATERIAL DESIGNATION EN1652 or Alloy		NEAREST FIT		TYPICAL CHEMICAL COMPOSITION %											
Symbol/ Name	Number	UNS	BS 2870	Cu	Be	Co	Fe	Mn	Ni	P	Pb	Sn	Zn	Others	Impurities
HIGH CONDUCTIVITY COPPERS															
-	CW501L	-	CZ101	Available by Request											
-	CW503L	-	CZ103	Available by Request											
CuZn30	CW505L	C26000	CZ106	69.0 - 71.0	-	-	0.05	-	0.3	-	0.05	0.1	Balance	Al: 0.02	0.1
CuZn33	CW506L	C26800	CZ107	66.0 - 68.0	-	-	0.05	-	0.3	-	0.05	0.1	Balance	Al: 0.02	0.1
CuZn36	CW507L	-	-	Available by Request											
CuZn36Pb3	-	C36000	-	Available by Request											
CuZn37	CW508L	C27200	CZ108	62.0 - 64.0	-	-	0.1	-	0.3	-	0.1	0.1	Balance	Al: 0.05	0.1

Mechanical Properties								
MATERIAL DESIGNATION EN1652 or Alloy		NEAREST FIT		Material Condition (R Value)	Proof Strength 0.2% Min (N/mm2)	Tensile Strength (N/mm2)	Elong. % Min. (50mm Gauge Length)	Hardness Max (VPN)
Symbol/ Name	Number	UNS	BS 2870					
BRASSES								
CuZn30	CW505L	C26000	CZ106	R270	160 Max	270-320	40	55-95
				R350	170 Min	350-430	21	95-125
				R410	260 Min	410-490	9	120-155
				R480	430 Min	480 Min	-	150 Min
CuZn33	CW506L	C26800	CZ107	R280	170 Max	280-380	40	55-90
				R350	170 Min	350-430	23	90-125
				R420	300 min	420-500	6	125-155
				R500	450 Min	500 Min	-	155 Min
CuZn37	CW508L	C27200	CZ108	R300	180 Max	300-370	38	55-95
				R350	170 Min	350-440	19	95-125
				R410	300 Min	410-490	8	120-155
				R480	430 Min	480-560	3	150-180
				R550	500 Min	550 Min	-	170 Min

Features and Applications							
MATERIAL DESIGNATION BSEN1652 (Strip) BSEN12166 (Wire)		NEAREST FIT		Key Features	Key Markets		
Symbol/ Name	Number	UNS	BS 2870 (Strip) BS 2873 (Wire)				
BRASSES							
-	CW501L	-	CZ101	Available by Request			
-	CW503L	-	CZ103	Available by Request			
CuZn30	CW505L	C26000	CZ106	CuZn30 is a solid solution strengthened Brass. The added 30% Zinc increases mechanical strength, but decreases conductivity. It offers the maximum ductility of the CuZn alloys and has good deep drawing properties.			Electronics, Decorative
CuZn33	CW506L	C26800	CZ107	CuZn33 is a solid solution strengthened Brass with 33% Zinc, increasing the inclination for stress cracking corrosion compared to CuZn30			Automotive, Electrical Engineering
CuZn36	CW507L	-	-	Available by Request			
CuZn36Pb3	-	C36000	-	Available by Request			
CuZn37	CW508L	C27200	CZ108	Considered a general purpose Copper alloy, CuZn37 has Zinc additions of 37%. Higher Zinc additions increase the inclination for stress cracking corrosion. This Copper alloy is ideal for simple forming operations			Electronics, Plumbing, Decorative