

Technical Data Material Compounds ¹⁾

		Copper-Cladded Steel		Copper-Cladded Stainless Steel	Copper-Cladded Iron-Nickel		
		CCS 30	CCS 40	CCS37 E	DUMET		
Material - No.	DIN / EN	-	-	-	-		
	UNS	-	-	-	-		
Nominal Composition	[%]	Core Steel / Copper layer 7 % of ∅	Core Steel / Copper layer 10 % of ∅	Core Stainless Steel / Copper layer 10 % of ∅	Core FeNi / Copper layer 3,5 % of ∅		
Conductivity ²⁾	[m/(Ohm mm ²)]	18	23	20	13		
Conductivity ²⁾	[% IACS]	30	40	35	22		
Thermal Conductivity ²⁾	[W/(m K)]	134	172	-	15 ⁴⁾		
Coefficient of Thermal Expansion ³⁾	[10 ⁻⁶ / K]	12	13	17	5,5 ⁴⁾		
Tensile Strength annealed	[N/mm ²]	350	350	600	550		
Elongation annealed	[%]	25	25	35	25		
Tensile Strength hard	[N/mm ²]	800	800	1500	-		
Density	[g/cm ³]	8,15	8,20	8,20	8,30		

1) Nominal data for diameter 0,8 mm

2) At 20° C

3) Temperature range 20 - 200° C

4) Data of core material