

MINERAL INSULATED RTD CABLE

Mineral insulated cables for RTDs have inner conductors of copper, copper-nickel alloys, nickel, nickel-chromium or nickel-plated copper.

Sheath Diameter (mm)	Number of Core	Nominal Wall Thickness (mm)	Element Diameter (mm)	Insulation Resistance (MΩ)	Sheath Material	Conductor Type	Insulation
2.00	2 Core & 3 Core	≥ 0.20	≥ 0.30	≥ 100 MΩ	SS316L SS321 SS304 Inconel 600 and others	Copper Nickel Nickel-Copper Alloy and others	MgO (Standard Purity ≥97%) MgO (High Purity ≥ 99.4%)
2.50		≥ 0.25	≥ 0.38				
3.00		≥ 0.30	≥ 0.45				
4.50		≥ 0.45	≥ 0.68				
6.00		≥ 0.60	≥ 0.90				
6.40		≥ 0.64	≥ 0.96				
8.00		≥ 0.80	≥ 1.20				
9.50		≥ 0.95	≥ 1.43				
10.00		≥ 1.00	≥ 1.50				
2.00	4 Core	≥ 0.20	≥ 0.24	≥ 100 MΩ	SS316L SS321 SS304 Inconel 600 and others	Copper Nickel Nickel-Copper Alloy and others	MgO (Standard Purity ≥97%) MgO (High Purity ≥ 99.4%)
2.50		≥ 0.25	≥ 0.30				
3.00		≥ 0.30	≥ 0.36				
4.50		≥ 0.45	≥ 0.54				
6.00		≥ 0.60	≥ 0.72				
6.40		≥ 0.64	≥ 0.77				
8.00		≥ 0.80	≥ 0.96				
9.50	≥ 0.95	≥ 1.14					
10.00	≥ 1.00	≥ 1.20					
3.00	6 Core	≥ 0.30	≥ 0.30	≥ 100 MΩ	SS316L SS321 SS304 Inconel 600 and others	Copper Nickel Nickel-Copper Alloy and others	MgO (Standard Purity ≥97%) MgO (High Purity ≥ 99.4%)
4.50		≥ 0.45	≥ 0.45				
6.00		≥ 0.60	≥ 0.60				
6.40		≥ 0.64	≥ 0.64				
8.00		≥ 0.80	≥ 0.80				
9.50		≥ 0.95	≥ 0.95				
10.00	≥ 1.00	≥ 1.00					
6.00	8 Core	≥ 0.60	≥ 0.60	≥ 100 MΩ	SS316L SS321 SS304 Inconel 600 and others	Copper Nickel Nickel-Copper Alloy and others	MgO (Standard Purity ≥97%) MgO (High Purity ≥99.4%)
6.40		≥ 0.64	≥ 0.64				
8.00		≥ 0.80	≥ 0.80				
9.50		≥ 0.95	≥ 0.95				
10.00		≥ 1.00	≥ 1.00				

Ordering Example

80-4Cu316 RTD MI Cable : 8.0 mm OD, 4 Cores, Copper Conductor, SS316L Sheath

60-6NiCu600 RTD MI Cable : 8.0 mm OD, 4 Cores, Nickel-Copper Alloy Conductor (Constantan), Inconel 600 Sheath