



CERAFIL® CN8

Miniature ceramic insulated wires
for very high temperatures

- Operating temp. -90°C to +500°C *
- Miniature size, weighing far less
- Excellent radiation resistance
- Totally non-combustible at temperatures over 1,000°C
CERAFIL® may melt but cannot catch fire• Inert to usual
and organic solvents

78

Construction

- 1 - Copper / nickel support
- 2 - Cerafil® insulation

OMERIN INNOVATION

CERAFIL®, a ceramic-insulated wire for very high temperatures is the result of several years of research in our laboratory. Our team of engineers has developed ground-breaking technology that deposits ceramic on a lead wire of very small diameter (from AWG 41)

A FEW PRECAUTIONS WHEN USING

Ceramic is very different from traditional insulations. It is a rigid, hydrophilic material that requires special care when using. CERAFIL® must be stored in a dry environment and handled with care, without mechanical mistreatment (folding, traction, etc.). It must be stripped using fine grain sandpaper. Do not hesitate to contact us for further information.



Use: This miniature and very high temperature wire has been designed to allow the manufacturing of extremely reliable windings capable of withstanding any thermal overload (mechanical heating, short-circuit, location with thermal risk, etc.). In addition, thermocouple cables with CERAFIL® type ceramic insulation can be made upon request to measure temperature in contained environments subject to extreme heat

Standard products

Color coding = Grey

Temperature °C	Max. resistivity μΩ/cm	AWG Size	Nominal OD (mm)	Nominal OD (in)	Tolerance (mm)	Approx. linear weight (lbs/mft)	Lenght (ft/lbs)	Reco* Max.		Minimum bending radius (in)	Maximum linear resistance at 20°C (Ω / ft)
		41	.091	.003	+/- .009	.024	43 380	0.15	0.22	.020	2.518
		38	.118	.005	+/- .008	.050	21 251	0.30	0.44	.025	1.237
		36	.138	.005	+/- .008	.071	14 763	0.43	0.65	.029	.850
		34	.168	.007	+/- .008	.110	9 435	0.68	1.02	.035	.539
		34	.188	.007	+/- .008	.140	7 352	0.88	1.31	.039	.418
		32	.218	.009	+/- .008	.194	5 313	1.22	1.83	.044	.300
		30	.268	.011	+/- .008	.301	3 393	1.92	2.87	.054	.191
		28	.319	.013	+/- .009	.434	2 351	2.75	4.13	.065	.133
		27	.369	.014	+/- .009	.589	1 726	3.76	5.64	.074	.097
		26	.419	.016	+/- .009	.767	1 324	4.93	7.39	.084	.074
		25	.469	.018	+/- .009	.974	1 042	6.22	9.33	.094	.059
		24	.519	.020	+/- .009	1.199	848	7.70	11.50	.104	.048
		23	.569	.022	+/- .009	1.453	699	9.30	13.90	.114	.039
		22	.619	.024	+/- .009	1.727	580	11.10	16.60	.124	.033
		22	.669	.026	+/- .009	2.030	491	13.00	19.50	.133	.028
		21	.719	.028	+/- .009	2.351	432	15.10	22.60	.143	.024
		20	.770	.030	+/- .010	2.702	372	17.30	25.90	.154	.021
		20	.820	.032	+/- .010	3.071	327	19.70	29.60	.163	.019
		19	.920	.036	+/- .010	3.886	253	24.90	37.40	.183	.015
		18	1.020	.040	+/- .010	4.798	208	30.80	46.20	.203	.012

*Recommended winding tension.

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