



Electriduct Specifications Data Sheet for 304 Stainless Steel Cable Ties

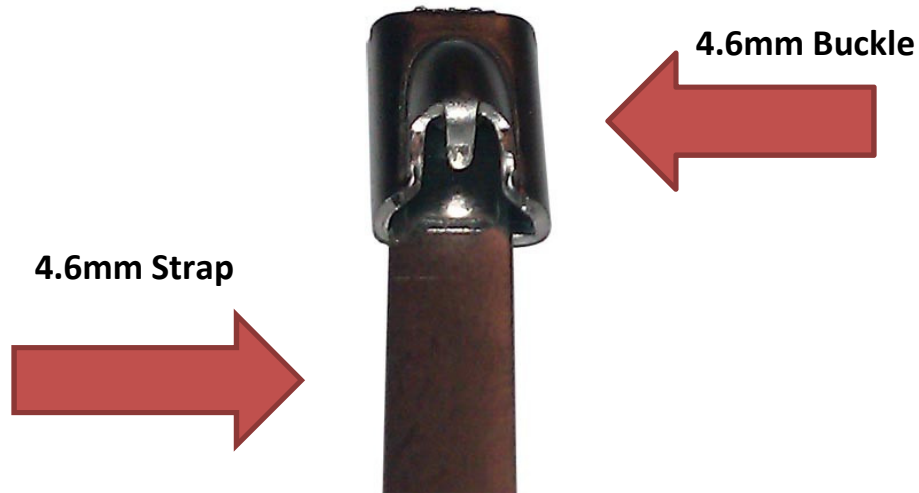
Product Description Durable and strong grade 304 stainless steel cable ties. Used for all industrial, commercial, and domestic field applications. Excellent corrosion resistance and heat resistant properties.



Stainless Steel Grade 304 Cable Ties Specs

Part Number	Width		Length		Tensile Strength		Bundle Diameter	
	mm	inch	mm	inch	LBS	KGS	mm	inch
CT-ED-SS-4	4.6	0.18	100	4	176	80	20	0.79
CT-ED-SS-6	4.6	0.18	150	6	176	80	44	1.73
CT-ED-SS-8	4.6	0.18	200	8	176	80	51	2.00
CT-ED-SS-14	4.6	0.18	360	14	176	80	102	4.00
CT-ED-SS-20	4.6	0.18	520	20	176	80	152	6.00
CT-ED-SS-27	4.6	0.18	680	27	176	80	203	8.00
CT-ED-SS-30	4.6	0.18	840	30	176	80	254	10.00

*All part numbers are available in both 25pc packs and 100pc packs.



Percent of Chemical Components in Each Part of Cable Tie

Part of Product	Carbon (C)	Sulfur (s)	Phosphorus (P)	Silicon (Si)	Manganese (Mn)	Chromium (Cr)	Nickel (Ni)
4.6mm Buckle	.050	.009	.027	.55	1.08	18.22	8.10
4.6mm Strap	.076	.004	.022	.56	1.06	18.31	8.15
Total	.126	.013	.049	1.11	2.14	36.53	16.25

Physical Properties:

*Typical Physical Properties for annealed grade 304 Stainless Steels

*Solution Treatment (annealing)

Grade	Density (kg/m ³)	Elastic Modulus (GPa)	Mean Coefficient of Thermal Expansion (mmm/m/°C)			Thermal Conductivity (W/m.K)		Specific Heat (0-100°C) (J/kg.K)	Electrical Resistivity (nW.m)
			0-100°C	0-315°C	0-538°C	At 100°C	At 500°C		
304	8000	193	17.2	17.8	18.4	16.2	21.5	500	720

Corrosion Resistance

Grade 304 is subject to pitting and crevice corrosion in warm chloride environments, and to stress corrosion cracking above 60°C/ 140°F. Cable ties are considered resistant to potable water with up to about 200mg/L chlorides at ambient temperatures.

Heat Resistant

Good corrosion resistance in intermittent applications to 870°C/ 1598°F, and in continuous service to 925°C/ 1697°F. Continuous use of Grade 304 in the 425°C/ 797°F - 860°C/ 1580°F is not recommended if subsequent aqueous corrosion resistance is important.

Heat Treatment

Solution Treatment (Annealing) – Heat to 1010°C/ 1850°F - 1120°C/ 2048°F and cool rapidly. Grade 304 cannot be hardened by thermal treatment.

Dual Certification

Our 305 Stainless Steel Cable Ties have chemical and mechanical properties complying with 304 specifications and complies with the ASTM A276 Technical Standard.