TECHNICAL PRODUCT SPECIFICATION

Marine-Grade 316 Stainless Steel Cable

1x19 Construction • Architectural & Structural Cable Railing Infill

SPEC SHEET
Indoor & Outdoor Infill

Engineered with a smooth, burr-free satin finish, our **316 Marine-Grade Stainless Steel 1x19 Cable** delivers maximum structural integrity, exceptional fatigue resistance, and superior corrosion protection designed to withstand decades of exposure in both interior and exterior environments.

QUICK PRODUCT SPECIFICATIONS

SPECIFICATION PARAMETER	DETAILS & PERFORMANCE RATING
Strand Construction	1x19 Strand Core (Non-Flexible, Structural Grade)
Material Grade & Finish	Marine-Grade AISI 316 Stainless Steel • Satin Polished
Primary Application	Architectural Guardrail & Deck Cable Railing Infill
Breaking Strength — 1/8" Dia.	Approx. **1,800 – 2,100 lbs** (Guardrail standard)
Breaking Strength — 5/32" Dia.	Approx. **2,800 – 3,300 lbs** (Heavy-duty / high-load)

WHY 1X19 CONSTRUCTION IS THE RAILING BENCHMARK

Unlike dynamic rigging ropes (such as 7x7 or 7x19) designed for pulley flexibility, guardrail cable demands maximum rigidity and minimal elongation under load. Architectural specifiers universally select **1x19 construction** because it preserves permanent tension, minimizes stretch over time, and delivers a sleek, architectural finish.

▸ Superior Tensile & Breaking Margin

Delivers substantially higher breaking strength than 7x7 or 7x19 cables of equivalent diameter, offering greater safety margins under live railing loads.

▸ Clean Ends & Precise Swaging

Solid 19-wire layout eliminates "broom-straw" frayed ends upon cutting, ensuring seamless terminal insertion and maximum swage holding strength.

▸ Long-Term Tension & Code Compliance

Resists constructional elongation and creep over time, dramatically reducing re-tensioning maintenance and ensuring rails stay within the 4-inch sphere building code limit.

▸ Architectural Aesthetic & Feel

Extremely rigid with a smooth, burr-free surface, offering the clean, modern aesthetic required for luxury residential decks and commercial stair systems.

Dedicated Railing Infill: We supply 1x19 316 Stainless Steel exclusively for cable railing infill because it is specifically built for structural tension runs that stay code-compliant, tight, and flawless for decades — not just on day one.