

Lightweight Braid

50% Lighter EMI & Lightning Defense

LIGHTWEIGHT

- Up to 50% lighter than traditional braid
- Low risk alternative

VERSATILE

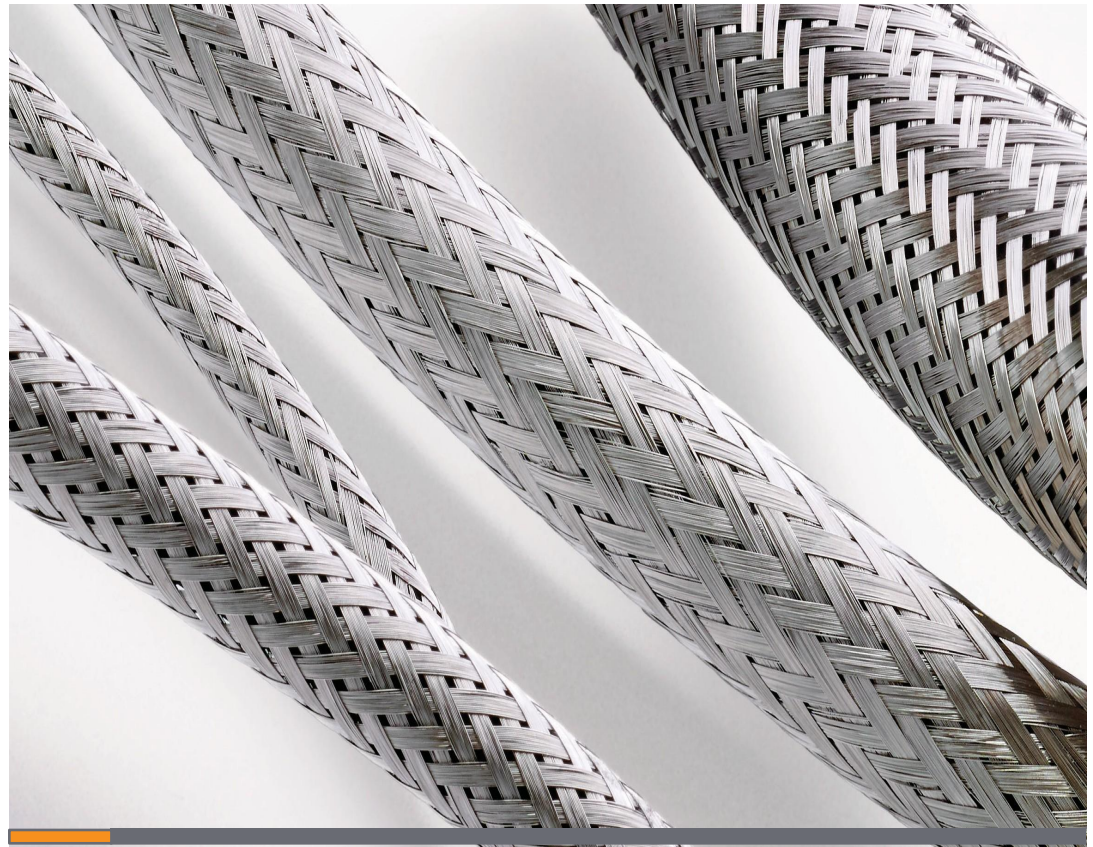
- Covers wide frequency range
- Better low-frequency performance than plated fibers or microfilaments
- Lightning protection

EASE OF USE

- Uses existing termination tooling and processes
- Easy transition from standard industry braids

APPLICATIONS

- Military Harnesses
- Commercial Aerospace
- Unmanned Vehicles
- Space



Lightweight braids that slash weight by 50% compared to traditional copper braids. Made with a unique, high-conductivity metal alloy, these remarkable braids deliver superior protection against electromagnetic interference (EMI) across a wide range of frequencies. Their exceptional flexibility makes them easy to install on any surface, simplifying integration into even the most complex designs.

But what truly sets these braids apart is their seamless integration into existing systems. Utilizing familiar metal braiding techniques, they align effortlessly with standard tools and processes, minimizing disruption and accelerating adoption. This innovative solution combines weight savings, top-notch shielding, and user-friendly installation, making it the perfect choice for weight-sensitive applications and miniaturized devices in evolving industries. From aerospace and wearables to medical and automotive applications, these lightweight braids empower designers to push the boundaries of innovation.

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ORDERING INFORMATION

Diameter, mm (Inch)	Part Number	
	Tin Plated	Nickel Plated
3 (0.12)	LWB-101-3.0	LWB-103-3.0
6 (0.24)	LWB-101-6.0	LWB-103-6.0
10 (0.40)	LWB-101-10.0	LWB-103-10.0
20 (0.79)	LWB-101-20.0	LWB-103-20.0

Performance Characteristics

MATERIALS

- **Braid:** Copper alloy, tin plated
- **Former:** Plastic

SPECIFICATIONS

- **Standard Test:** ASTM B566-04 Class 15A

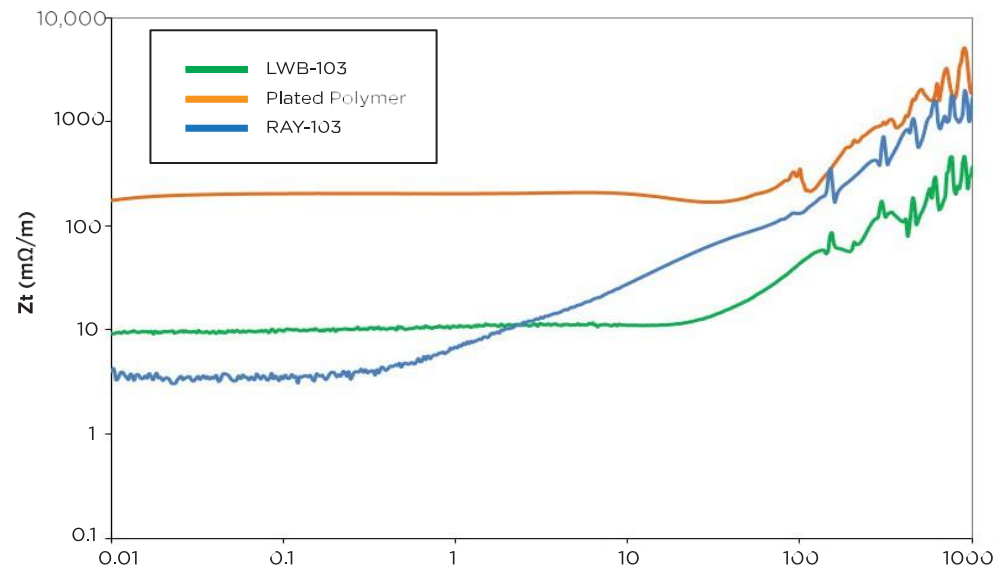
ENVIRONMENTAL

- **Temperature Range:**
Tin Plated : -65°C to +150°C
- **Salt Spray:** ASTM B117
- **Flex Endurance:** 1000 cycles min.,
SAE AS4373 method 704 (180-degree bend)
- **RoHS Compliant**
- **Packaging:** 100-meter spools

INSTALITE LIGHTWEIGHT BRAID COMPARISON

Lightweight Braid versus Standard Braid (10 mm Braid)

(Nominal Values)	INSTALITE LWB	Standard Braid
DC Resistance (mΩ/m)	9	3.5
Strand Tensile Strength (N/mm ²)	758	220
Strand Break Strength (N)	15.2	11.14
Weight (kg/km)	28	60



Braids are 10-mm OD
 RAY-103 = Traditional braid (control)
 LWB-103 lightweight braid = 50% weight savings
 Plated fibers = 80% weight savings; 100x worse
 surface transfer impedance up to 10 MHz

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DIMENSION DETAILS:

SI No	Paras Part Number	Former Size mm	No of Spindles	No of Wires/S pindle	Individual strand size AWG	Min Coverage %	Overall OD Min	Overall OD Max	Weight of TCCA gm/mtr
1	60206004240509	3.0	24	5	36	90	3.60	4.50	10.70
2	60206008240609	5.0	24	6	36	90	5.20	6.20	12.84
3	60206125241609	6.5	24	16	36	90	6.80	7.60	34.23
4	60206126480809	9.5	48	8	36	90	10.00	11.00	34.23
5	60206006240709	4.0	24	7	36	96	4.20	5.00	14.98
6	60206009240909	6.0	24	9	36	96	6.40	7.20	19.26
7	60206127241409	7.5	24	14	36	96	8.02	8.82	29.95
8	60206015361509	10.0	36	12	36	96	10.52	11.32	38.51
9	602060128361509	12.5	36	15	36	96	13.02	13.82	48.14
10	60206021361609	15.0	36	16	36	96	15.52	16.32	51.35
11	60206027481609	20.0	48	16	36	96	20.52	21.32	68.47

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