

EN4199-004

Bonding Leads

EN4199-004 bonding leads are designed specifically for Aerospace and Military applications. They are ASD* (formerly AECMA) approved and have undergone extensive mechanical and electrical testing, including flex testing to 250,000 cycles, sinusoidal and random vibration cycles and salt mist testing.

EN4199-004 bonding leads are manufactured from multi-layer round braid and are available in tin plated and nickel plated copper in a variety of cross-sectional areas, lengths and termination options



- **ASD* approved**
- **Tin & nickel plated copper**
- **-65 °C to +260 °C**
- **Terminal/Stud option range**
- **Excellent flexibility**

Applications

Military/Aerospace
Airframe
Equipment bonding
Lightning protection

Materials

Tin-plated Copper -65°C to +150°C
Nickel-plated Copper -65°C to +260°C

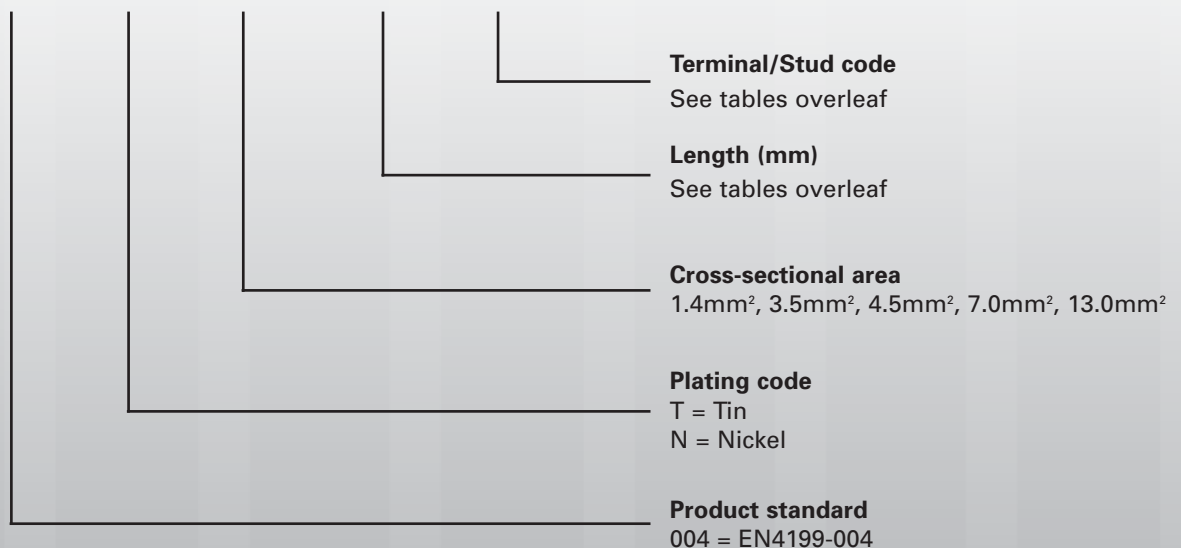
EN4199-004

Bonding Leads

* Aerospace and Defence Industries Association of Europe (www.asd-europe.org)

Part Numbering System

CFBA4199 - XXX - X - XXX - XXX - X



Ordering Example

CFBA4199-004-T-7.0-250-G = EN4199 Round braid, tin plated copper, 7.0mm², 250mm long, terminal variant G

Performance Testing

EN4199-004 bonding leads have been fully tested to the following in accordance with EN4199-001:

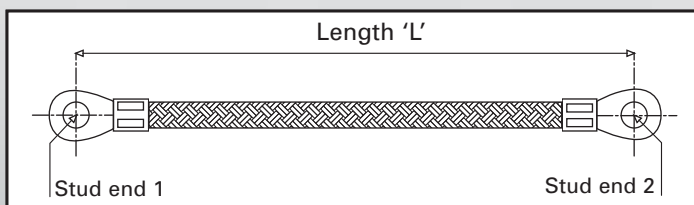
Sinusoidal and random vibration
 Mechanical fatigue (250,000 cycles)
 Salt mist (48hrs)
 Temperature endurance (20hrs)
 Rapid temperature cycling
 Terminal ageing by temperature and current cycling
 Voltage drop
 Tensile strength

Standard Available Lengths

Length (mm)	Availability for cross-sectional area (mm ²)				
	1.4mm ²	3.5mm ²	4.5mm ²	7.0mm ²	13.0mm ²
63	✓			✓	
80	✓	✓	✓	✓	✓
100	✓	✓	✓	✓	✓
125	✓	✓	✓	✓	✓
160	✓	✓	✓	✓	✓
200	✓	✓	✓	✓	✓
250	✓	✓		✓	✓
315	✓			✓	
400	✓	✓	✓	✓	
500		✓		✓	
630				✓	
800				✓	

Terminal/Stud Codes

Code	End 1	Diameter (mm)	End 2	Diameter (mm)	Availability for cross-sectional area (mm ²)				
	Stud Size		Stud Size		1.4mm ²	3.5mm ²	4.5mm ²	7.0mm ²	13.0mm ²
A	#6	3.50	#6	3.50	✓	✓	✓		
B	#8	4.17	#8	4.17	✓	✓	✓		
C	#10	4.83	#6	3.50	✓	✓	✓		
D	1/4	6.35	#6	3.50	✓	✓	✓		
E	#8	4.17	#8	4.17	✓	✓	✓	✓	
F	#10	4.83	#8	4.17	✓	✓	✓	✓	
G	1/4	6.35	#8	4.17	✓	✓	✓	✓	
H	#10	4.83	#10	4.83	✓	✓	✓	✓	✓
J	1/4	6.35	#10	4.83	✓	✓	✓	✓	✓
K	1/4	6.35	1/4	6.35	✓	✓	✓	✓	✓
L	5/16	7.94	#10	4.83	✓			✓	✓
M	5/16	7.94	5/16	7.94	✓			✓	✓
N	5/16	7.94	1/4	6.35					✓



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