SPECIFICATION FOR
CPI/CPIW STAINLESS STEEL BRAIDS
or engineering approved equivalent per the specification below

1. SUMMARY

This specification covers the technical requirements of the CPI/CPIW stainless steel earthing / grounding braids for use in applications where electrical connections between metal parts/live parts and grounding / equipotential bonding systems are required.
CPI/CPIW braids shall be suitable for use in applications where high EMC/EMI performance is essential.

2. COMPLIANCE REQUIREMENTS

a. ANSI/UL 467 "Grounding and Bounding Equipment" (listed by Underwriters Laboratories under this category)
b. IEC 61439-1 "Low-voltage switchgear and controlgear assemblies"
c. ABS American Bureau of Shipping certificate category "Marine & Offshore Applications - Braided ground conductors for use in Grounding and Bonding Equipment."
d. RoHS 2002/95/EC Compliant

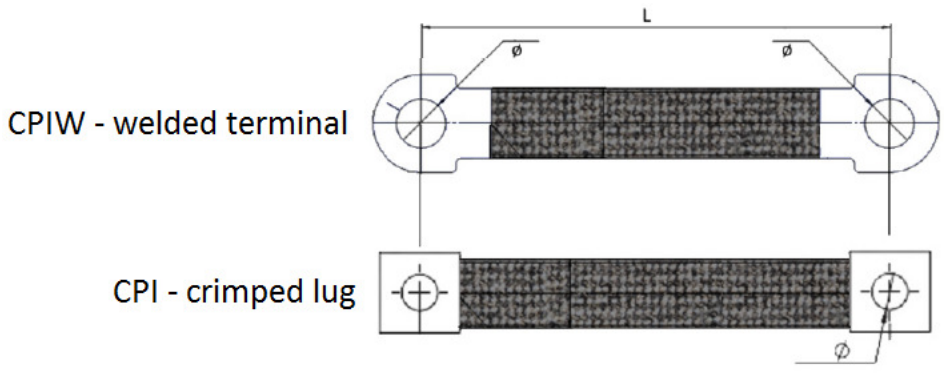
3. PRODUCT COMPOSITION

a. Braids

The braids shall be made of non-ferromagnetic stainless steel of grade 316L. The wire diameter shall be 0.25mm.

b. Terminal

The braids should be supplied with an already assembled terminal which can be either made of a crimped flat rectangular lug with round edge (CPI range) or of a welded terminal (CPIW range) as shown in the illustration below. Terminal must be made of non-ferromagnetic stainless steel of grade 316L.



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4. PRODUCT CHARACTERISTICS

a. Physical

The braids shall be having a rectangular cross section with pre-punched holes on both ends. Tolerances for hole position on the lug and braid according to NF C20-130.

b. Environmental

The maximum operating temperature of the braids shall be 105°C.

c. Performance

The tensile strength and tightening torque of the braid must exceed the requirements of NF C 20-130.

5. MANUFACTURER'S QUALIFICATION AND QUALITY CONTROL

a. Manufacturer shall be ISO9001:2008 certified and manufacturing and quality control be done accordingly.
b. Manufacturer shall be following a health & safety program at least as stringent as the United States Occupational Health & Safety Administration program.