

HBT99 EMC Screening Braid

HBT99 is a premium screening product providing exceptional protection for wire and cable harnesses from electromagnetic interference (EMI). HBT99 is available in tin-plated and nickel-plated copper and provides optical coverage of between 96% and 99%. It is supplied on a former to maintain its round form and to aid its application and is recommended for wire systems demanding higher levels of protection from EMI.

Applications

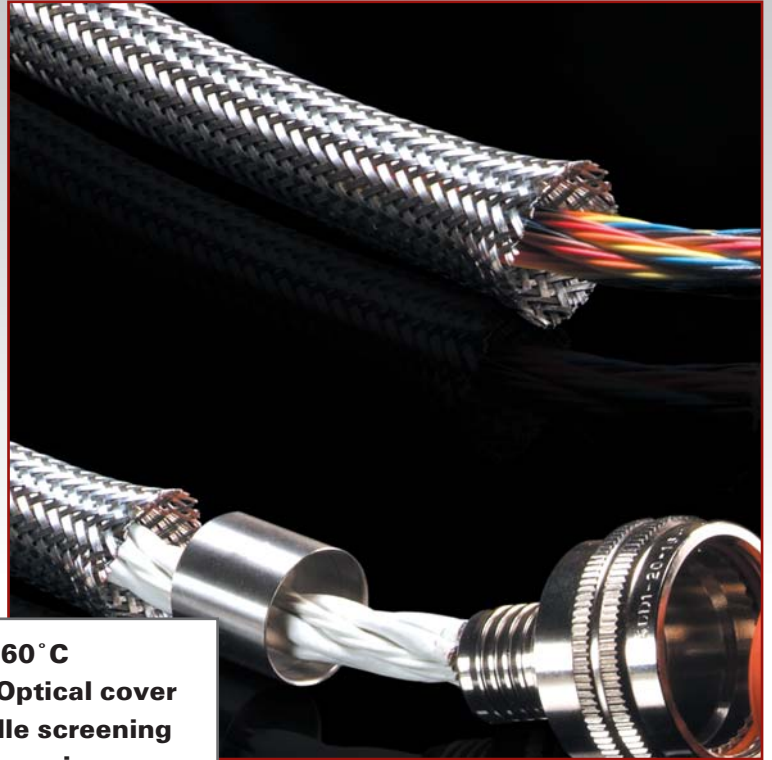
Aircraft
Avionics
Military
Satellites
Helicopters
Marine

Availability

Tin plated copper
Nickel plated copper
Other materials available

Performance

See back page, Zt chart



- **-65 °C to +260 °C**
- **Up to 99% Optical cover**
- **Cable bundle screening**
- **Harness screening**
- **High expansion ratio**
- **Backshell screening**

HBT99 Screening Braid

Product detail

Part No.	I.D. Ø (mm)	Cable Size Range Ø (mm)	Optimum Screen Size Range Ø (mm)	Reel Size (m)
HBT99-03.0-X/0-F	3.0	2.0 → 3.5	2.0 → 4.0	100
HBT99-04.0-X/0-F	4.0	3.0 → 8.0	3.0 → 5.0	100
HBT99-05.0-X/0-F	5.0	3.5 → 9.0	4.0 → 6.0	100
HBT99-06.0-X/0-F	6.0	4.0 → 10.0	5.0 → 7.5	100
HBT99-07.5-X/0-F	7.5	7.0 → 14.0	6.0 → 10.0	100
HBT99-10.0-X/0-F	10.0	7.5 → 22.0	8.0 → 12.0	100
HBT99-12.5-X/0-F	12.5	11.0 → 24.0	11.0 → 15.0	100
HBT99-15.0-X/0-F	15.0	14.5 → 30.0	15.0 → 20.0	100
HBT99-20.0-X/0-F	20.0	16.0 → 38.0	17.0 → 25.0	50
HBT99-25.0-X/0-F	25.0	21.0 → 39.0	22.0 → 30.0	50
HBT99-30.0-X/0-F	30.0	27.0 → 40.0	27.0 → 35.0	50
HBT99-35.0-X/0-F	35.0	30.0 → 52.0	30.0 → 40.0	50
HBT99-40.0-X/0-F	40.0	36.0 → 62.0	36.0 → 50.0	50

Ordering example

8mmØ cable to have a nickel plated screen, choose part number: HBT99-07.5-3/0-F

Note: Replace -X in part number with -2 = Tin, -3 = Nickel

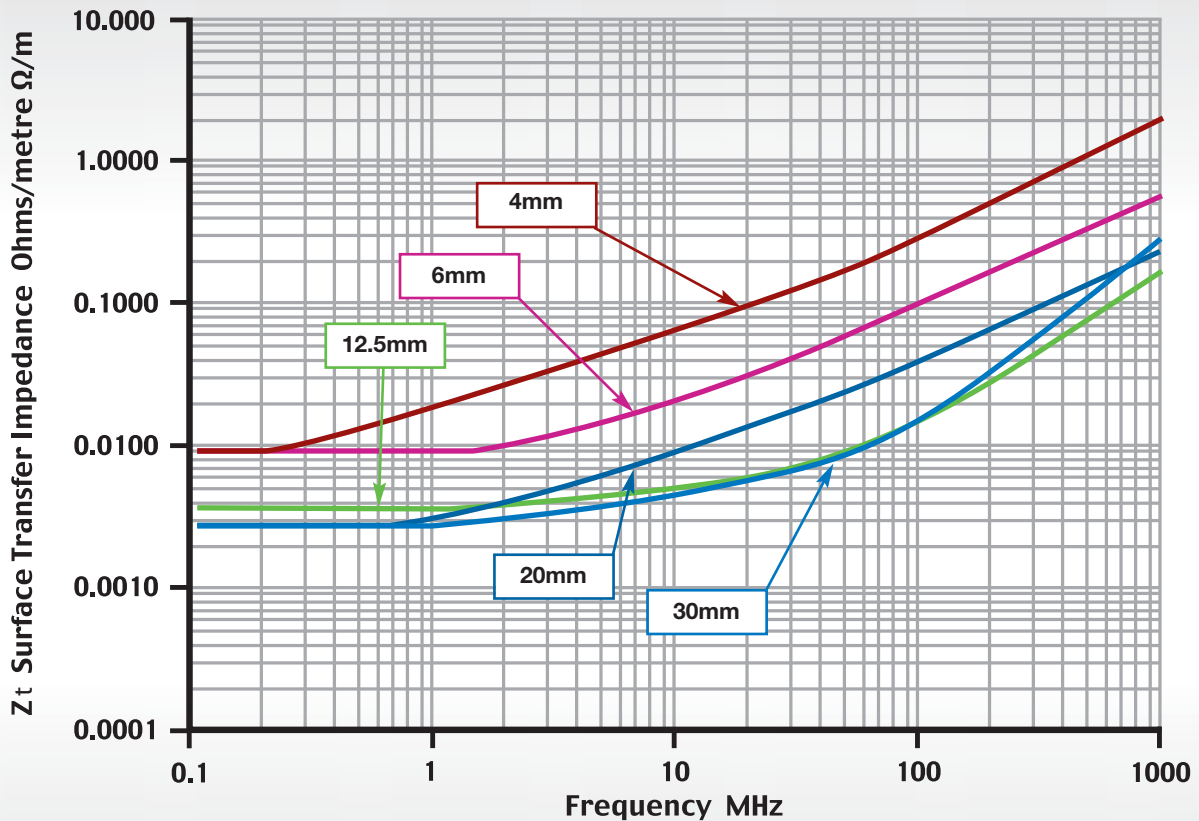
EMC Screening Performance

To assess the shielding effectiveness of an EMC screening braid it is necessary to measure the Surface Transfer Impedance (Z_t) of the cable shield. Surface transfer impedance relates to the voltage developed along the screening braid due to the disturbance current flowing nearby. The unit of measure is Ohms per metre. Generally, cables and harnesses that are highly shielded exhibit low Z_t values.

Cabletec HBT screening braids have been independently tested to IEC196-1 to measure their surface transfer impedance (Z_t) over a wide range of frequencies.

A summary of the results of the tests is shown in the graph below.

Screening performance HBT99



cabletec

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