

HBT90

EMC Screening Braid

HBT90 is cost effective solution for shielding wire harnesses from electromagnetic interference (EMI). It is supplied on a former to maintain its round form and to aid its application. HBT90 is available in tin-plated copper and provides a minimum optical coverage of 90%, minimising cross-talk within the cable and internal or external interference.

Applications

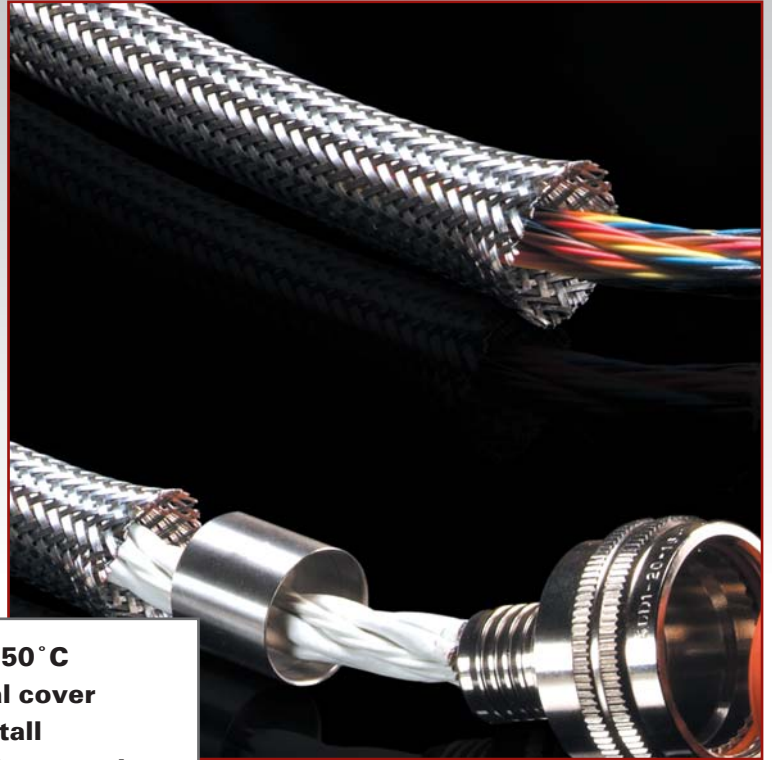
Military electronics
Commercial electronics
Trains
Marine
Automotive

Availability

Tin plated copper

Performance

See back page, Zt chart



- **-65 °C to +150 °C**
- **90% Optical cover**
- **Easy to install**
- **Wire bundle screening**
- **Harness screening**
- **Conduit screening**

HBT90 Screening Braid

Product detail

Part No.	I.D. Ø (mm)	Cable Size Range Ø (mm)	Minimum % Screen	Reel Size (m)
HBT90-03.0-2/0-F	3.0	2.0 → 3.5	90	100
HBT90-04.0-2/0-F	4.0	3.0 → 5.0	90	100
HBT90-05.0-2/0-F	5.0	4.0 → 6.0	90	100
HBT90-06.0-2/0-F	6.0	5.0 → 8.0	90	100
HBT90-07.5-2/0-F	7.5	6.5 → 9.5	90	100
HBT90-10.0-2/0-F	10.0	7.0 → 12.0	90	100
HBT90-12.5-2/0-F	12.5	11.0 → 14.0	90	100
HBT90-15.0-2/0-F	15.0	13.0 → 18.0	90	100
HBT90-20.0-2/0-F	20.0	17.0 → 23.0	90	50
HBT90-25.0-2/0-F	25.0	22.0 → 28.0	90	50
HBT90-30.0-2/0-F	30.0	27.0 → 40.0	90	50
HBT90-35.0-2/0-F	35.0	32.0 → 45.0	90	50
HBT90-40.0-2/0-F	40.0	38.0 → 52.0	90	50

Ordering example

8mmØ cable to have a tin plated screen, choose part number: HBT90-07.5-2/0-F

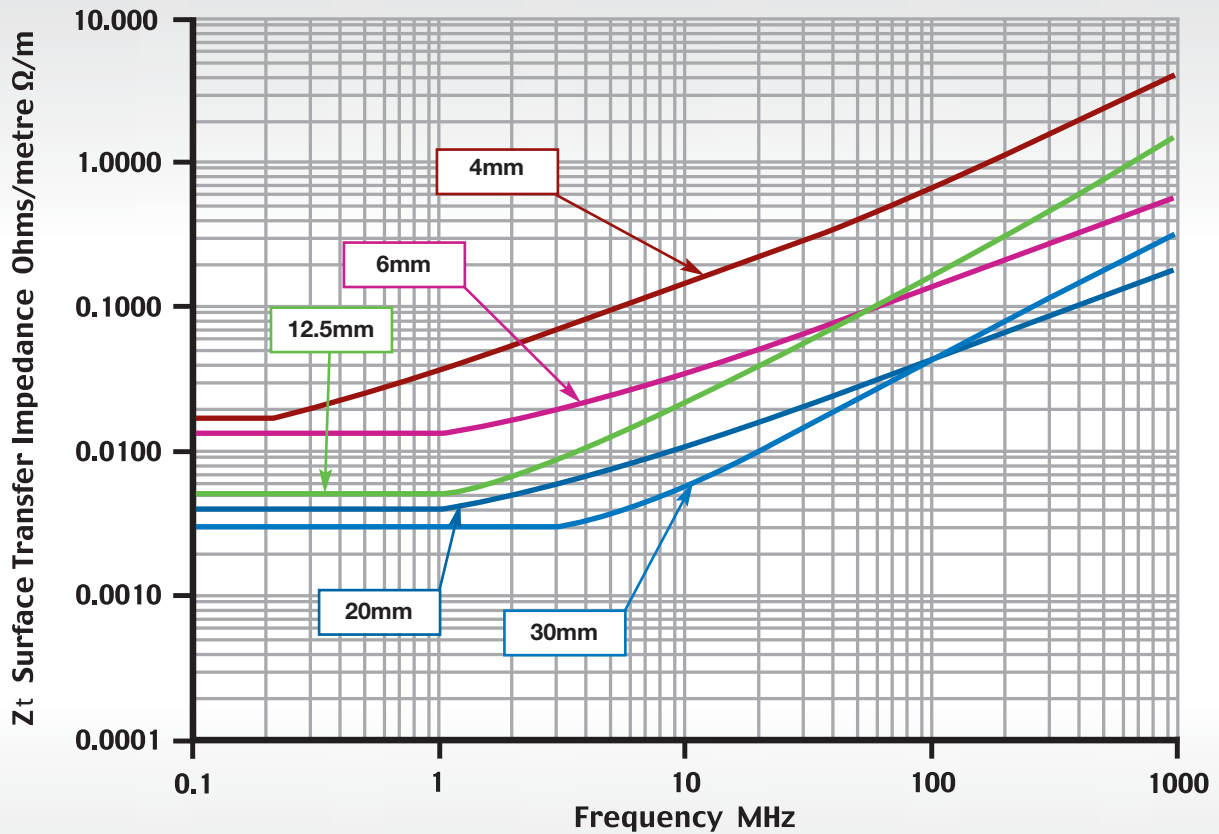
EMC Screening Performance

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 HBT90



cabletec

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