MARLEW
ELECTRICAL CONDUCTORS

SB 1700-1800-2700
Industrial Automation

Shielded multiconductor for RS 232 systems

SB SBAR®
Shielded multiconductor
for RS 232 systems

CERTECNICA
Producto Certificado

UL LISTED

Applications

Fieldbus distribution circuits; suitable for underground and aerial raceways in RS 232 systems.

Features

Temperature rating: 105ºC maximum.
Voltage rating: 300V.
Construction requirements: As per UL 13 Type PLTC.
Fire requirements: As per UL 1685.
Conductor requirements: As per ASTM B8 and ASTM B33.
NEC Code: Compliant with Art. 725 PLTC and Art. 800 Communications.

Description

Conductor: Annealed tinned electrolytic copper, 7-wire stranding, class B.
Insulation: Thermoplastic compound.
Identification:

- 2 Conductors:
- 3 Conductors:
- 4 Conductors:
- 5 Conductors or greater: White numbered

Shield: Aluminium-polyester tape plus tinned-copper braid in SB 1700 and SB 1800 series. Aluminium-polyester tape plus tinned-copper drain wire in SB 2700 series.
Sheath: Grey PVC; fire-retardant; sunlight and hydrocarbon-resistant.
Stripping: Polyamide ripcord under the sheath.

Outstanding Features

Double Shielding | *Fire-retardant* | *Electromagnetic interference protection* | *Hydrocarbon-resistant* | *Sunlight resistant* | *Computer Systems*

Optionals

Armour: Zinc-plated steel served-wire helical armour or aluminium interlock armour plus grey PVC sheath, fire-retardant, sunlight and hydrocarbon-resistant.

See Technical Note # 8, "Wire armour properties"

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Installation

Assembly: Minimum bend radius is 7xOD (unarmoured versions) and 12xOD (armoured versions).
Maximum pulling tension: 5daN/sq mm on copper conductors. Wire-armoured cables can withstand 10daN/sq mm on the armour wires.
Assembly temperature: 5ºC or higher.

Tinned copper conductors

Dimensions, Weight & General Properties

Code	N° of Cond.	Gauge	Electrical resistance	Shield	Velocity of propagation	Mutual capacitance		Outside diameter	Weight
		AWG	Ohm/km		VP(%)	pF/m	pF/ft	mm	kg/km
SB 1703	3	24	90.9	Aluminium / Polyester tape + tinned copper braid (65% coverage)	45	110	33.5	5.3	40
SB 1704	4							5.6	46
SB 1707	7							6.3	61
SB 1710	10							7.7	83
SB 1712	12							7.9	91
SB 1715	15							8.6	107
SB 1719	19							8.9	123
SB 1725	25							10.8	166
SB 1803	3	22	57.4	Aluminium / Polyester tape + tinned copper braid (65% coverage)	45	125	38.1	5.6	43
SB 1804	4							5.9	49
SB 1807	7							6.7	65
SB 1810	10							8.2	89
SB 1812	12							8.4	98
SB 1815	15							9.1	114
SB 1819	19							9.5	132
SB 1825	25							11.6	179
SB 2703	3	24	90.9	Aluminium / Polyester tape + tinned copper drain wire	45	110	33.5	4.6	28
SB 2704	4							4.9	33
SB 2707	7							5.6	45
SB 2710	10							6.8	61
SB 2712	12							7.2	71
SB 2715	15							7.9	85
SB 2719	19							8.2	99
SB 2725	25							9.6	126

pF/m = Mutual capacitance between conductors expressed in picoFarad per metre.
pF/ft = Mutual capacitance between conductors expressed in picoFarad per foot.

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