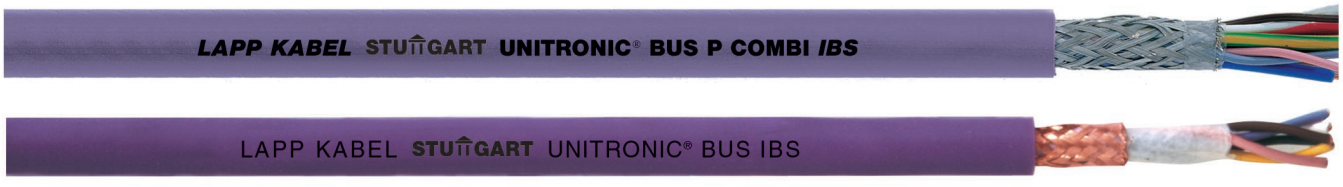
UNITRONIC® BUS IBS

Industrial Communication, Fieldbus in the Sensor-Actuator-Level

INTERBUS 100 Ohm



Special Feature
Remote Bus Cable (RBC)
UNITRONIC® BUS IBS UL/CSA
Like UNITRONIC® BUS IBS above, but with UL/CSA approval.

Note
IBS Cable - for stationary application (Remote Bus Cable + Installation Remote Bus Cable)
INTERBUS is a Registered Trademark of Phoenix Contact GmbH & Co
According to DIN 19258 EN 50254 and IEC 61158.
LAPP KABEL is a member of INTERBUS CLUB.
Shown bitrates allow the following cable length (max.) of one segment:
500 kBit/s = max. 400m
Characteristic impedance: 100 Ohm
Technical Data: see overview matrix “UNITRONIC BUS cables”

IBS Cable – for stationary application (Remote Bus Cable + Installation Remote Bus Cable)

Cable Make-up
Remote Bus Cable (INBC)
UNITRONIC® BUS IBS
7-wire strands of plain copper wires, cores twisted to pairs and pairs into layers; colour coded acc. to DIN 47100, wrapping of plastic foil, overall screening of copper wires,

Outer sheath:
special PVC-compound, flame retardance, according to VDE 0482, part 265-2-1/ IEC 60332-1 (accord. to VDE 0472 part 804 test type B, violet (RAL 4001).
Certified by INTERBUS CLUB.

UNITRONIC® BUS IBS UL/CSA
as UNITRONIC® BUS IBS however with UL and CSA approval

Cable Make-up
Installation Remote Bus Cable (INBC)
UNITRONIC® BUS P COMBI IBS

Data pairs:
Seven-wire strand of plain copper wires, cores twisted to pairs and pairs twisted into layers; colour coded acc. to DIN 47100.

Cores:
19-wire strand (1 mm²) of plain copper wires.
Overall screening of tinned copper wires.

Outer sheath:
PUR-compound, halogen-free, flame-retardant according to VDE 0472, part 804, test type b (IEC 60332.1), violet (RAL 4001).
Certified by INTERBUS CLUB.

Associated Products
See Sub Chapter ERbic ® Interface connectors for fieldbus systems page 12.2

Technical Data

- Minimum bending radius for static: 8 x cable diameter
- Temperature range: static: -40 °C up to +80 °C
- Conductor resistance: (loop): max. 186 Ohm/km
- Mutual capacitance: (800 Hz): max. 60 nF/km
- Characteristic Impedance: 100 Ohm
- Peak working voltage: (not f. power purpose) 250 V
- Test voltage: conductor/conductor: 1500 V

Part number	Type	Type	No. of pairs/cores and mm² per conductor	Outside diameter in mm approx.	Copper weight kg/km approx.	Weight kg/km approx.
	for stationary application					
2170 206	Remote bus cable (RBC)	UNITRONIC®-BUS IBS	3 x 2 x 0,22	ca. 7,2	37,0	72,0
2170 209	Remote bus cable (RBC)	UNITRONIC®-BUS IBS UL/CSA	3 x 2 x 0,22	ca. 7,2	37,0	72,0
2170 208	Installation remote bus cable (INBC)	UNITRONIC®-BUS P COMBI IBS	3 x 2 x 0,22 + 3 x 1,0	ca. 7,9	60,0	85,0

No cutting charge for standard stock units (50, 100, 250, 500, 1000 m).
Please declare us your desired design (e.g. 1 x 500 m drum or 5 x 100 rings).
Coils < 30 kg, beyond automatically drums.