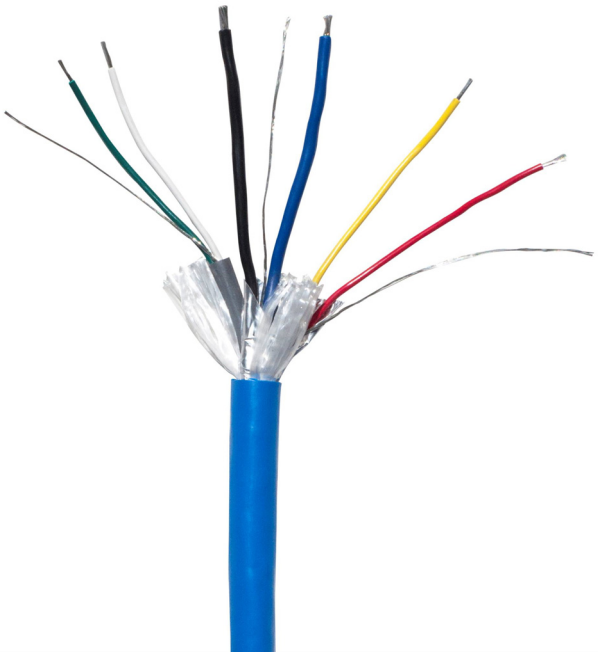
BMA-SILBUS/POWER/STROBE CABLE TYPE A03

- 1 x 4mm^2 twisted pair
- 2 x 1mm^2 twisted pair with screen
- PVC insulation
- Low mutual inductance
- Low L/R ratio
- Flame retardant PVC outer sheath
- IEC/AS/NZS 60079-25 cable type A compliant



DESCRIPTION

Cable type A03; part number G2000B is designed for PSACS1 pre-start intercom systems that may require SILBUS networks, strobe control or general power distribution in the same cable. The cable provides power to the BMA's via the 4mm^2 pair, BMA communication in the red-yellow 1mm^2 pair and SILBUS/Dupline, strobe control or general power distribution in the green-white 1mm^2 pair.

The BMA-SILBUS cable consists of three main elements, an unscreened 4mm^2 twisted pair and two screened 1mm^2 twisted pairs.

The 4mm^2 pair is made up of 56 strands of 0.3mm tinned copper wire while the 1mm^2 pairs are made up of 32 strands of 0.2mm tinned copper wire to provide maximum strength and flexibility. All conductors are insulated with PVC.

The 1mm^2 pairs are screened using a foil tape and a 7/0.25 TC drain conductor.

The outer sheath is constructed from HI-FLEX flame retardant PVC and is coloured blue.

This cable has particularly good L/R ratios despite the large CSA of the conductors.

Every batch of Austdac cable is quality controlled, inspected and tested to ensure that the specified Exi electrical parameters C_c, L_c and L_c/R_c are not exceeded and within tolerance.

This gives our customer's confidence in the safety of their network installations knowing that any IEC/AS/NZS 60079-25 installation assessment is using reliable and safe cable data.

SPECIFICATION

POWER ELEMENT (BMA POWER)	
Construction	56/0.3
Cross sectional area	4mm^2
Material	Tinned copper
Resistance nominal	0.00489Ω/m @ 25ºC
Insulation	PVC
Insulation colour	Blue and Black
Insulation radial thickness	0.6mm
Insulation diameter	3.8mm
Capacitance C_c	500pF/m max
Mutual inductance L_c	0.59uH/m max
L/R ratio L_c/R_c	60uH/Ω max

SIGNAL ELEMENT 1 (BMA SIGNAL)	
Construction	32/0.2
Cross sectional area	1mm^2
Material	Tinned copper
Resistance nominal	0.01908Ω/m @ 25ºC
Insulation	PVC
Insulation colour	Red and Yellow
Insulation radial thickness	0.5mm
Insulation diameter	2.3mm
Screen	Foil tape
Drain construction	7/0.25
Drain material	Tinned copper
Drain cross sectional area	0.335mm^2
Capacitance C_c	400pF/m max
Mutual inductance L_c	0.65uH/m max
L/R ratio L_c/R_c	20uH/Ω max

OUTER SHEATH	
Material	Flame retardant PVC
Colour	Blue
Outside diameter	15mm max
Text height	5mm
Text colour	Black
Text repeat	1m

GENERAL	
Bending radius	100mm min
Temperature	-20ºC to +60ºC

SIGNAL ELEMENT 2 (SILBUS)	
Construction	32/0.2
Cross sectional area	1mm^2
Material	Tinned copper
Resistance nominal	0.01908Ω/m @ 25ºC
Insulation	PVC
Insulation colour	Green and White
Insulation radial thickness	0.5mm
Insulation diameter	2.3mm
Screen	Foil tape
Drain construction	7/0.25
Drain material	Tinned copper
Drain cross sectional area	0.335mm^2
Capacitance C_c	400pF/m max
Mutual inductance L_c	0.65uH/m max
L/R ratio L_c/R_c	20uH/Ω max

ORDERING DETAILS

DESCRIPTION	ORDER CODE
BMA-SILBUS/POWER/STROBE CABLE TYPE A03	G2000B