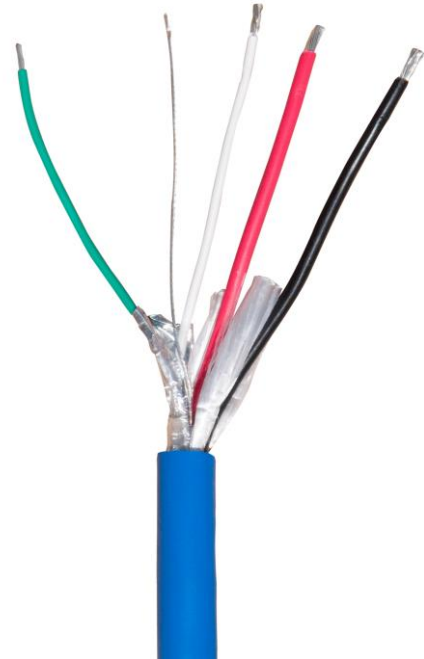


- ✂ **4mm² twisted pair**
- ✂ **1mm² twisted pair with screen**
- ✂ **PVC insulation**
- ✂ **Low mutual inductance**
- ✂ **Low L/R ratio**
- ✂ **Flame retardant PVC outer sheath**
- ✂ **IEC/AS/NZS 60079-25 cable type B compliant**
- ✂ **MSHA Approved**



DESCRIPTION

Cable type A02; part number G2000 is designed for BMA intercom and pre-start networks. The cable provides power to the BMA's via the 4mm² pair and communications and signaling via the 1mm² pair.

The BMA cable consists of two main elements, an unscreened 4mm² twisted pair and a screened 1mm² twisted pair.

The 4mm² pair is made up of 56 strands of 0.3mm tinned copper wire while the 1mm² pair is made up of 32 strands of 0.2mm tinned copper wire to provide maximum strength and flexibility. All conductors are insulated with PVC.

The 1mm² pair is 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

Construction	56/0.3
Cross sectional area	4mm ²
Material	Tinned copper
Resistance nominal	0.005089Ω/m @ 25°C
Insulation	PVC
Insulation colour	Red and Black
Insulation radial thickness	0.6mm
Insulation diameter	3.8mm
Capacitance C _c	100pF/m max
Mutual inductance L _c	0.61uH/m max
L/R ratio L _d /R _c	60uH/Ω max

SIGNAL ELEMENT

Construction	32/0.2
Cross sectional area	1mm ²
Material	Tinned copper
Resistance nominal	0.01908Ω/m @ 25°C
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 _d /R _c	20uH/Ω max

OUTER SHEATH

Material	Flame retardant PVC
Colour	Blue
Outside diameter	13mm max
Text height	3.7mm
Text colour	Black
Text repeat	1m

GENERAL

Bending radius	100mm min
Temperature	-20°C to +60°C

ORDERING DETAILS

DESCRIPTION	ORDER CODE
BMA CABLE TYPE A02	G2000



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