

Encoder Cable

For Incremental Shaft Encoders

GENERAL DESCRIPTION

This 5 and 8 Core braided polypropylene insulated & sheathed cable is designed for use with low voltage electronic control signals.

CONSTRUCTION

Conductors: 16/0.12mm (0.18sq mm) tin copper wire. The wire conforms to the requirements of AS1574 for type 110 copper. D.C. Resistance of the conductor is 106 ohms/km @20° C, this Conductor fulfils the requirements of AS1125.

Insulation: V90-HT PVC designed to comply with AS/NZS 3808:2000. The cores are insulated to a nominal diameter of 1.00 +/- 0.05mm. Radial thickness of insulation is 0.20mm. In line spark testing at 1.80Kv A.C. is used to assure insulation integrity.

Lay Construction: The above eight cores are laid up with a 1 x 3/200 denier cotton filler in centre and a paper tape overall.

Screening: 16 x 6 x 0.12mm tinned copper wire braid (coverage 75%). A further paper tape is then lapped over the braid.

Cable Integrity: To ensure integrity between insulation and screen all cores are tested for short circuit (test voltage is set at 500V). Conductor continuity is also checked.

Sheath: Semi-compressed Polyurethane. Nominal diameter 5.80mm, maximum 6.00mm.

Electrical Characteristics: Max.1 Amp

NOTE: THIS CABLE IS NOT SUITABLE FOR CONNECTION TO THE MAINS .

Function	Plug Pin	Wire
0 Volts	1	Black
+ Volts	2	Red
A	3	White
B	4	Blue
O	5	Yellow
A	6	Green
B	7	Violet
O	8	Brown

Cable Part Numbers
8 Core: FLEX-08CORE
5 Core: FLEX-05CORE

