COMPOSITE CABLE 6 CORE TYPE A15

- 2 x 4mm² conductors
- 2 x 2.5mm² conductors
- 1 x 1.00mm² Conductor
- 1 x 2mm² Conductor
- Polyethylene insulation
- Low capacitance
- Low mutual inductance
- Low L/R ratio
- Flame retardant Polyurethane sheath
- MSHA Compliant
- uL Approved

DESCRIPTION

Composite cable type A15 is designed for use as a conveyor lanyard in SILBUS or Dupline® network based conveyor emergency stop and PSACS1 Longwall systems.

The cable has a stainless steel braid under the outer sheath to provide mechanical strength to stop cable stretch. The tough polyurethane outer sheath provides wear resistance where the lanyard cable passes through roof support or loops.

Type A15 Composite cable consists of six polyethylene insulated conductors.

The cable has a low capacitance of 170pF/m and a low mutual inductance of 0.58uH/m. The all-important L/R is a low 25uH/Ω.

The outer sheath is available in yellow.

Every batch of Austdac cable is quality controlled, inspected and tested to ensure that the cable is within mechanical tolerance and the specified Exi electrical parameters Cc, Lc and Lc/Rc are not exceeded.

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

The A15 composite cable is typically fitted with our unique slip ring plug and socket arrangement (see above image). This becomes particularly useful when used on longwalls during roof support movement. The slip rings allow the cables to rotate 360°.

SPECIFICATION

POWER CONDUCTORS	
Construction	56/0.3
Cross sectional area	4.5mm^2
Material	Tinned copper
Resistance nominal	0.00489Ω/m @ 25ºC
Conductor insulation	Polyethylene
Insulation colour	Blue and Black
Insulation radial thickness	0.6mm
Insulation diameter	3.8mm
Capacitance C_c	250pF/m max
Mutual inductance L_c	0.58uH/m max
L/R ratio L_c/R_c	60uH/Ω max

SIGNAL CONDUCTORS	
Construction	50/0.25
Cross sectional area	2.5mm^2
Material	Tinned Copper
Resistance nominal	0.00782Ω/m @ 25ºC
Conductor insulation	Polyethylene
Insulation colour	Brown, Green
Insulation radial thickness	0.5mm
Insulation diameter	3.1mm
Capacitance C_c	280pF/m
Mutual inductance L_c	0.65uH/m max
L/R ratio L_c/R_c	42uH/Ω max

AUDIO CONDUCTORS	
Construction	32/0.2, 28/0.3
Cross sectional area	1.005mm^2, 1.980mm^2
Material	Tinned Copper
Resistance nominal	0.01908Ω/m @ 25ºC
Conductor insulation	Polyethylene
Insulation colour	Red, yellow
Insulation radial thickness	0.5mm
Insulation diameter	2.3mm, 2.8mm
Capacitance C_c	170pF/m
Mutual inductance L_c	0.72uH/m max
L/R ratio L_c/R_c	25uH/Ω max

GENERAL	
Bending radius	50mm min
Temperature	-70ºC to +75ºC

OUTER SHEATH	
Material	UV Tolerant Halogen Free Yellow Polyurethane
Colour	Yellow
Outside diameter	16.4mm
Text height	5mm
Text colour	Black
Text repeat	1m
Text	AUSTDAC CAC3P3BNT-YELLOW TYPE A15 07-KA070023-MSHA SIGNAL VOLTAGE<50V E484700 UL AWM 20936 2/12AWG, 1/18AWG, 1/15AWG, 2/14AWG 80°C 300V VW-1 cUL AWM I/II A/B 80°C 300V FT1 <batch#> - <metre marking>

ORDERING DETAILS

DESCRIPTION	COLOUR	ORDER CODE
CABLE A15 COMPOSITE	YELLOW	CACP3BNT-YELLOW
INLINE SLIP RING PLUGS	N/A	CABL08D-INLINE
RIGHT ANGLE SLIP RING PLUGS	N/A	CABL08D-ANGLE

Note: cable is ordered as composite cable per mtr plus 1 x plug kit of preferred type
e.g: “CAC3P3BNT-YELLOW x 10, CABL08D-INLINE x 1”
The above equals 1 x 10mtr slip ring cable c/w inline plugs

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