



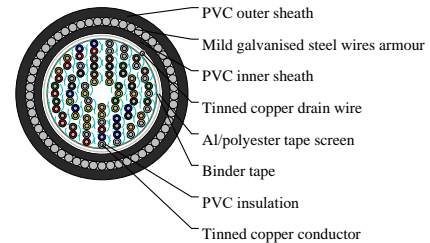
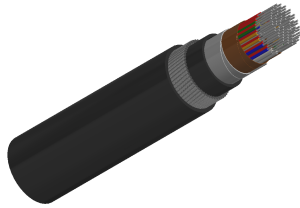
# Caledonian

Telecommunication cables

www.caledonian-cables.com

marketing@caledonian-cables.com

## Auxiliary Multipair Cables - ARMOUR SCREEN PVC 40P0.5



### APPLICATIONS

These light current control cables are intended primarily for use with control, indication and alarm equipment for switchgear and similar power apparatus in power stations and substations. Suitable for use on circuits where the nominal voltage does not exceed 150V d.c. or 110V a.c. Suitable for direct buried applications.

### STANDARDS

ENATS 09-6 ISSUE 9

Flame Retardant: IEC 60332-3-24

### VOLTAGE RATING

150V d.c./110V a.c

### CABLE CONSTRUCTION

Conductors : Solid (Class 1) tinned copper conductors to BS EN 60228.

Insulation : PVC insulation to BS7655.

Pair Identification : See colour code.

Binder Tape : p.e.t.p. tape of suitable overlap.

Collective Screen : tinned copper drain wire under and in contact with aluminium/p.e.t.p. laminated tape applied metallic side down.

Inner Sheath : PVC inner sheath to BS7655.

Armouring : Mild galvanised steel wires to BS EN10257-1.

Outer Sheath : Black PVC outer sheath Type to BS7655.

### COLOUR CODE

ENATS 09-6 Issue 9 \* Table 1

### PHYSICAL AND THERMAL PROPERTIES

PROPERTIES FOR CABLE:

Temperature Rating: 70°C maximum conductor operating temperature

Minimum Bending Radius: 10 X O.D.

PROPERTIES FOR OUTER SHEATH:

Amount of halogen acid gas: HCl < 15%

Sunlight Resistance: UL 1581 Section 1200



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Temperature Installation:-5°C/50°C

Temperature Operating:-30°C/50°C

## Electrical Properties

ELECTRICAL DATA @ 20°C:

Conductor resistance (Solid / Class 1):36 Ω/km(Max.)

Insulation resistance :(Individual conductor):80 MΩxkm(Min.)

(Screen and armour):1 MΩxkm(Min.)

Mutual capacitance 1kHz (core to core):50 nF/km(Max.)

Mutual inductance:50μH/Ω(Max.)

Test voltage:Ums core:2000V(core)

Ums core:2000V(armour)

## DIMENSION AND PARAMETERS

No. of Cores	Nominal Cross-sectional Area	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Diameter Over Inner Sheath (min.)	Nominal Armour Wire Diameter	Nominal Outer Sheath Thickness	Approx. Overall Diameter	Appr. Copper Weight
	mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	kg/km
40	0.5	0.3	1.4	23.96	1.6	1.8	30.76	1669