



## Data Cable Overall Screened

**Application:** Internal and external inter-connections of electronic apparatus such as computers, intercoms, telemetering, signaling and alarm systems.

**Conductor:** Tinned Annealed Copper wire (AS/NZS 1125)

**Insulation:** PVC V75 (Multi core), Polypropylene (Multi pair)

**Insulation Thickness:** 0.3mm

**Screen:** Aluminum tape screen, polyester mylar tape lapping and 7/0.20mm tinned copper drain wire.

**Sheath:** PVC V75 Grey

**Standard:** AS/NZS 3808 (PVC)

**Pack Length:** 100m, 250m, 500m

### CAUTION

**Low Voltage – Should NOT be connected to mains power supply**

## Multi Core

**Maximum Working Voltage:** 300V. RMS

**Conductor Resistance at 20°C:** 8.3  $\Omega$ /100m

**Characteristic Impedance ( at 100kHz):** 64 $\Omega$

**Capacitance (Between each core and all other bunched together):** 212 pF/m

**(Between a core and adjacent core):** 118 pF/m

## Typical Features:

| Electra Cables Part No. | No. of Cores | Stranding No./mm | Nom. area mm <sup>2</sup> | Nom. O/D. mm | Sheath Thickness mm | Cable Weight Kg/100m |
|-------------------------|--------------|------------------|---------------------------|--------------|---------------------|----------------------|
| EAS7204                 | 4            | 7/0.20           | 0.22                      | 4.8          | 0.8                 | 3.3                  |
| EAS7206                 | 6            | 7/0.20           | 0.22                      | 5.7          | 0.8                 | 4.2                  |
| EAS7208                 | 8            | 7/0.20           | 0.22                      | 6.3          | 1.0                 | 6.4                  |
| EAS7210                 | 10           | 7/0.20           | 0.22                      | 7.0          | 1.0                 | 6.6                  |
| EAS7212                 | 12           | 7/0.20           | 0.22                      | 7.4          | 1.0                 | 9                    |

| Wire | Colour | Wire | Colour | Wire | Colour | Wire | Colour |
|------|--------|------|--------|------|--------|------|--------|
| 1    | Red    | 4    | Yellow | 7    | Brown  | 10   | Pink   |
| 2    | Blue   | 5    | White  | 8    | Violet | 11   | Azure  |
| 3    | Green  | 6    | Black  | 9    | Orange | 12   | Grey   |

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.



## Multi Pair (7/0.20)

**Austel Approval:** A95/CA/0217

**Maximum Working Voltage:** 300V. RMS

**Conductor Resistance at 20°C:** 8.6  $\Omega$ /100m

**Crosstalk between Pairs at 1 kHz:** 78

**at 100kHz:** 53

**Characteristic Impedance (at 100 kHz):** 89 $\Omega$

**Capacitance (Between each core and all other bunched together):** 90 pF/m

**(Between core of a pair):** 53 pF/m

**Attenuation of a pair:** at 1 kHz 0.26 dB/100m at 10 kHz 0.27 dB/100m

at 100 kHz 0.34 dB/100m at 150 kHz 0.39 dB/100m

at 1 MHz 1.26 dB/100m

## Typical Features:

| Electra Cables Part No. | No. of Pairs | Stranding No./mm | Nom. area mm <sup>2</sup> | Nom. O/D. mm | Sheath Thickness mm | Cable Weight Kg/100m |
|-------------------------|--------------|------------------|---------------------------|--------------|---------------------|----------------------|
| EAS7201P                | 1            | 7/0.20           | 0.22                      | 4.2          | 0.8                 | 2.2                  |
| EAS7201PHV#             | 1            | 7/0.20           | 0.22                      | 4.6          | 1.0                 | 2.6                  |
| EAS7202P                | 2            | 7/0.20           | 0.22                      | 5.7          | 0.8                 | 3.3                  |
| EAS7203P                | 3            | 7/0.20           | 0.22                      | 5.9          | 0.8                 | 4.2                  |
| EAS7204P                | 4            | 7/0.20           | 0.22                      | 6.4          | 0.8                 | 5                    |
| EAS7206P                | 6            | 7/0.20           | 0.22                      | 7.5          | 0.9                 | 7                    |
| EAS7208P                | 8            | 7/0.20           | 0.22                      | 8.6          | 1.0                 | 9                    |
| EAS7210P                | 10           | 7/0.20           | 0.22                      | 9.7          | 1.0                 | 11                   |
| EAS7212P                | 12           | 7/0.20           | 0.22                      | 10.3         | 1.0                 | 12.4                 |

# This cables have a 0.6/1kV insulation radial

| Pair NO. | Pair Colours |        | Pair NO. | Pair Colours |        | Pair NO. | Pair Colours |        | Pair NO. | Pair Colours |        |
|----------|--------------|--------|----------|--------------|--------|----------|--------------|--------|----------|--------------|--------|
|          | Wire 1       | Wire 2 |          | Wire 1       | Wire 2 |          | Wire 1       | Wire 2 |          | Wire 1       | Wire 2 |
| 1        | White        | Blue   | 4        | White        | Brown  | 7        | Red          | Orange | 10       | Red          | Grey   |
| 2        | White        | Orange | 5        | White        | Grey   | 8        | Red          | Green  | 11       | Black        | Blue   |
| 3        | White        | Green  | 6        | Red          | Blue   | 9        | Red          | Brown  | 12       | Black        | Orange |

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.





## Multi Pair (7/0.25)

**Maximum Working Voltage:** 300V. RMS

**Conductor Resistance at 20°C:** 5.2  $\Omega$ /100m

**Crosstalk between Pairs at 1 kHz:** 96

**at 100 kHz:** 75

**Characteristic Impedance (at 100 kHz):** 78 $\Omega$

**Capacitance (Between each core and all other bunched together):** 120 pF/m

**(Between core of a pair):** 78 pF/m

**Attenuation of a pair: at 1 kHz** 0.46 dB/100m **at 10 kHz** 0.66 dB/100m

**at 100 kHz** 1.23 dB/100m **at 150 kHz** 1.63 dB/100m

**at 1 MHz** 1.89 dB/100m

## Typical Features:

| Electra Cables Part No. | No. of Pairs | Stranding No./mm | Nom. area mm <sup>2</sup> | Nom. O/D. mm | Sheath Thickness mm | Cable Weight Kg/100m |
|-------------------------|--------------|------------------|---------------------------|--------------|---------------------|----------------------|
| EAS7251T1PPE*           | 1            | 7/0.25           | 0.34                      | 4.6          | 0.8                 | 2.2                  |
| <b>EAS72503</b>         | 3 Core       | 7/0.25           | 0.34                      | 5.0          | 0.8                 | 2.9                  |
| EAS72502P               | 2            | 7/0.25           | 0.34                      | 5.7          | 0.8                 | 3.9                  |
| EAS72503P !             | 3            | 7/0.25           | 0.34                      | 6.8          | 0.8                 | 4.8                  |
| EAS72504P               | 4            | 7/0.25           | 0.34                      | 7.9          | 0.9                 | 6.7                  |
| EAS72506P !             | 6            | 7/0.25           | 0.34                      | 8.9          | 1.0                 | 9.2                  |
| EAS72512P !             | 12           | 7/0.25           | 0.34                      | 12           | 1.2                 | 13.8                 |

- \* This cable is Tinned copper polyethylene and has black and white cores
- ! Those items are subject to minimum order Quantity. Please contact our sales team for details

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.

## Instrumentation Cable Overall Screened

**Application:** Internal and external inter-connections of electronic apparatus such as computers, intercoms, telemetering, signaling and alarm systems.

**Conductor:** Annealed Copper wire (AS/NZS 1125)

**Screen:** Aluminum tape screen, polyester mylar tape lapping and 7/0.20mm tinned copper drain wire.

**Standard:** AS/NZS 3808 (PVC)

**Pack Length:** 100m, 500m

### CAUTION

**Low Voltage – Should NOT be connected to mains power supply**

### Performance Characteristics:

| Conductor Stranding No./mm | Conductor Resistance ( $\Omega/100\text{m}$ @ 20°C) | Current continuous Max. (Amps) | Voltage working Max. (V.RMS) | Capacitance of Pair (pF/m) | Attenuation of Pair at 1kHz (dB/100m) | Characteristic Impedance at 100kHz ( $\Omega$ ) |
|----------------------------|-----------------------------------------------------|--------------------------------|------------------------------|----------------------------|---------------------------------------|-------------------------------------------------|
| 7/0.30                     | 3.8                                                 | 3                              | 300                          | 124                        | 0.16                                  | 69                                              |
| 7/0.40                     | 2.2                                                 | 6                              | 300                          | 173                        | 0.12                                  | 46                                              |
| 7/0.50                     | 1.4                                                 | 12                             | 300                          | 164                        | 0.07                                  | 52                                              |
| 14/0.20                    | 4.2                                                 | 3                              | 300                          | 145                        | 0.30                                  | 78                                              |
| 16/0.20                    | 3.9                                                 | 3                              | 300                          | 124                        | 0.16                                  | 69                                              |
| 24/0.20                    | 2.5                                                 | 6                              | 300                          | 176                        | 0.13                                  | 44                                              |
| 32/0.20                    | 1.9                                                 | 9                              | 300                          | 168                        | 0.10                                  | 48                                              |

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.



## Multi Core

**Insulation:** PVC V75

**Core Colours:** 4 Cores (Red, Yellow, Green & Black)

6 Cores (Red, White, Black, Green, Blue & Yellow)

7 Cores (Red, White, Black, Green, Blue, Yellow & Brown)

**Sheath:** PVC 4V-75

**Sheath Colour:** Grey

### Typical Features:

| Electra Cables Part No. | No. of Cores | Stranding No./mm | Nom. area mm <sup>2</sup> | Nom. O/D. mm | Insulation Thickness mm | Sheath Thickness mm |
|-------------------------|--------------|------------------|---------------------------|--------------|-------------------------|---------------------|
| EAS14204                | 4            | 14/0.20          | 0.44                      | 5.4          | 0.3                     | 0.8                 |
| EAS14206                | 6            | 14/0.20          | 0.44                      | 6.9          | 0.3                     | 1.0                 |
| EAS14207                | 7            | 14/0.20          | 0.44                      | 7.0          | 0.3                     | 1.0                 |

**Insulation:** PVC V90HT

**Core Colours:** 3 Cores (Red, White & Black), 4 Cores (Red, White, Black & Blue)

**Sheath:** PVC 5V-90

**Sheath Colour:** Black

### Typical Features:

| Electra Cables Part No. | No. of Cores | Stranding No./mm | Nom. area mm <sup>2</sup> | Nom. O/D. mm | Insulation Thickness mm | Sheath Thickness mm |
|-------------------------|--------------|------------------|---------------------------|--------------|-------------------------|---------------------|
| EAS7303                 | 3            | 7/0.30           | 0.50                      | 6.2          | 0.5                     | 0.8                 |
| EAS7403                 | 3            | 7/0.40           | 0.88                      | 7.0          | 0.5                     | 0.9                 |
| EAS7503                 | 3            | 7/0.50           | 1.5                       | 8.1          | 0.5                     | 1.2                 |
| EAS24203                | 3            | 24/0.20          | 0.75                      | 7.2          | 0.6                     | 0.8                 |
| EAS24204                | 4            | 24/0.20          | 0.75                      | 8.0          | 0.6                     | 0.9                 |
| EAS32203                | 3            | 32/0.20          | 1.0                       | 7.4          | 0.6                     | 0.8                 |

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.



## Multi Pair

**Insulation:** PVC V90HT

**Core Colours:** White and Black numbered cores

**Sheath:** PVC 5V-90

**Sheath Colour:** Black

**Voltage:** These cables are run with a 240V radial thickness sheath and must not be connected to mains power supplies.

### Typical Features:

| Electra Cables<br>Part No. | No. of<br>Pairs | Stranding<br>No./mm | Nom. area<br>mm <sup>2</sup> | Nom. O/D.<br>mm | Insulation<br>Thickness mm | Sheath<br>Thickness mm |
|----------------------------|-----------------|---------------------|------------------------------|-----------------|----------------------------|------------------------|
| EAS7301P                   | 1               | 7/0.30              | 0.5                          | 5.8             | 0.5                        | 0.8                    |
| EAS7302P                   | 2               | 7/0.30              | 0.5                          | 7.7             | 0.5                        | 0.8                    |
| EAS7303P                   | 3               | 7/0.30              | 0.5                          | 8.9             | 0.5                        | 1.0                    |
| EAS7304P                   | 4               | 7/0.30              | 0.5                          | 9.8             | 0.5                        | 1.0                    |
| EAS7306P                   | 6               | 7/0.30              | 0.5                          | 11.2            | 0.5                        | 1.2                    |
| EAS7308P                   | 8               | 7/0.30              | 0.5                          | 13.6            | 0.5                        | 1.2                    |
| EAS7310P                   | 10              | 7/0.30              | 0.5                          | 14.4            | 0.5                        | 1.2                    |
| EAS7312P                   | 12              | 7/0.30              | 0.5                          | 15.8            | 0.5                        | 1.2                    |
| EAS7316P                   | 16              | 7/0.30              | 0.5                          | 17.2            | 0.5                        | 1.4                    |
| EAS7320P                   | 20              | 7/0.30              | 0.5                          | 19.0            | 0.5                        | 1.4                    |
| EAS7324P                   | 24              | 7/0.30              | 0.5                          | 20.6            | 0.5                        | 1.6                    |
| EAS7336P                   | 36              | 7/0.30              | 0.5                          | 25.4            | 0.8                        | 1.8                    |
| EAS7401P                   | 1               | 7/0.40              | 0.88                         | 6.3             | 0.5                        | 0.8                    |
| EAS7402P                   | 2               | 7/0.40              | 0.88                         | 8.5             | 0.5                        | 0.9                    |
| EAS7403P                   | 3               | 7/0.40              | 0.88                         | 9.6             | 0.5                        | 1.0                    |
| EAS7501P                   | 1               | 7/0.50              | 1.5                          | 7.0             | 0.5                        | 0.8                    |
| EAS7502P                   | 2               | 7/0.50              | 1.5                          | 8.8             | 0.5                        | 0.9                    |
| EAS7503P                   | 3               | 7/0.50              | 1.5                          | 10.6            | 0.5                        | 1.0                    |
| EAS7504P                   | 4               | 7/0.50              | 1.5                          | 12.0            | 0.5                        | 1.0                    |
| EAS7506P                   | 6               | 7/0.50              | 1.5                          | 14.6            | 0.5                        | 1.2                    |
| EAS7508P                   | 8               | 7/0.50              | 1.5                          | 16.5            | 0.5                        | 1.4                    |
| EAS7510P                   | 10              | 7/0.50              | 1.5                          | 18.4            | 0.5                        | 1.4                    |
| EAS7512P                   | 12              | 7/0.50              | 1.5                          | 20.3            | 0.5                        | 1.8                    |

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.



| Electra Cables Part No. | No. of Pairs | Stranding No./mm | Nom. area mm <sup>2</sup> | Nom. O/D. mm | Insulation Thickness mm | Sheath Thickness mm | Core Colours                 |
|-------------------------|--------------|------------------|---------------------------|--------------|-------------------------|---------------------|------------------------------|
| EAS14201P               | 1            | 14/0.20          | 0.44                      | 5.6          | 0.5                     | 0.8                 | Red & Black                  |
| EAS16201P               | 1            | 16/0.20          | 0.5                       | 5.8          | 0.5                     | 0.8                 | Red & Black                  |
| EAS16202P               | 2            | 16/0.20          | 0.5                       | 8.5          | 0.5                     | 0.8                 | White & Black numbered cores |
| EAS24201P               | 1            | 24/0.20          | 0.75                      | 6.8          | 0.6                     | 0.8                 | Red & Black                  |
| EAS24202P               | 2            | 24/0.20          | 0.75                      | 8.8          | 0.6                     | 0.8                 | White & Black numbered cores |
| EAS32201P               | 1            | 32/0.20          | 1.0                       | 7.0          | 0.6                     | 0.8                 | Red & Black                  |
| EAS7301PHV#             | 1            | 7/0.30           | 0.5                       | 7.0          | 0.8                     | 0.8                 | Blue & White                 |
| EAS7302PHV#             | 2            | 7/0.30           | 0.5                       | 8.7          | 0.8                     | 0.8                 | Blue & White numbered cores  |
| EAS7501PHV#             | 1            | 7/0.50           | 1.5                       | 8.8          | 0.8                     | 0.8                 | Black & White                |
| EAS7502PHV#             | 2            | 7/0.50           | 1.5                       | 9.9          | 0.8                     | 0.8                 | Black & White numbered cores |

Note: # These cable have 0.6/1kV insulation radial thickness. And blue sheath.

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.





## Instrumentation Cable Individually and Overall Screened Multi Pair

**Application:** Internal and external inter-connections of electronic apparatus such as computers, intercoms, telemetering, signaling and alarm systems.

**Conductor:** Plain Annealed Copper wire (AS/NZS 1125)

**Insulation:** PVC V90HT

**Core Colour:** White and Black numbered cores

**Screen:** Aluminum tape screen, polyester mylar tape lapping and 7/0.20mm tinned copper drain wire.

**Sheath:** PVC 5V-90 Black

**Standard:** AS/NZS 3808 (PVC)

**Voltage:** These cables are run with a 240V radial thickness sheath and must not be connected to mains power supplies.

**Pack Length:** 100m, 500m

### CAUTION

**Low Voltage – Should NOT be connected to mains power supply**

### Typical Features:

| Electra Cables Part No. | No. of Pairs | Stranding No./mm | Nom. area mm <sup>2</sup> | Nom. O/D. mm | Insulation Thickness mm | Sheath Thickness mm |
|-------------------------|--------------|------------------|---------------------------|--------------|-------------------------|---------------------|
| EIS72502P               | 2            | 7/0.25           | 0.34                      | 4.36         | 0.2                     | 0.5                 |
| EIAS7302P               | 2            | 7/0.30           | 0.5                       | 8.8          | 0.5                     | 1.0                 |
| EIAS7303P               | 3            | 7/0.30           | 0.5                       | 10.3         | 0.5                     | 1.2                 |
| EIAS7304P               | 4            | 7/0.30           | 0.5                       | 10.7         | 0.5                     | 1.2                 |
| EIAS7306P               | 6            | 7/0.30           | 0.5                       | 12.3         | 0.5                     | 1.4                 |
| EIAS7308P               | 8            | 7/0.30           | 0.5                       | 14.1         | 0.5                     | 1.4                 |
| EIAS7310P               | 10           | 7/0.30           | 0.5                       | 15.4         | 0.5                     | 1.4                 |
| EIAS7312P               | 12           | 7/0.30           | 0.5                       | 15.8         | 0.5                     | 1.4                 |
| EIAS7316P               | 16           | 7/0.30           | 0.5                       | 17.7         | 0.5                     | 1.6                 |
| EIAS7320P               | 20           | 7/0.30           | 0.5                       | 20.0         | 0.5                     | 1.6                 |
| EIAS7324P               | 24           | 7/0.30           | 0.5                       | 21.5         | 0.5                     | 1.8                 |
| EIAS7336P               | 36           | 7/0.30           | 0.5                       | 22.4         | 0.5                     | 2.0                 |

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.





| Electra Cables<br>Part No. | No. of<br>Pairs | Stranding<br>No./mm | Nom. area<br>mm <sup>2</sup> | Nom. O/D.<br>mm | Insulation<br>Thickness mm | Sheath<br>Thickness mm |
|----------------------------|-----------------|---------------------|------------------------------|-----------------|----------------------------|------------------------|
| EIAS7502P                  | 2               | 7/0.50              | 1.5                          | 9.1             | 0.5                        | 1.0                    |
| EIAS7504P                  | 4               | 7/0.50              | 1.5                          | 12.2            | 0.5                        | 1.2                    |
| EIAS7506P                  | 6               | 7/0.50              | 1.5                          | 14.8            | 0.5                        | 1.4                    |
| EIAS7508P                  | 8               | 7/0.50              | 1.5                          | 16.7            | 0.5                        | 1.6                    |
| EIAS7510P                  | 10              | 7/0.50              | 1.5                          | 21.1            | 0.5                        | 1.6                    |
| EIAS7512P*                 | 12              | 7/0.50              | 1.5                          | 20.3            | 0.5                        | 2.0                    |
| EIAS7516P*                 | 16              | 7/0.50              | 1.5                          | 23.0            | 0.5                        | 2.0                    |
| EIAS7524P*                 | 24              | 7/0.50              | 1.5                          | 28.0            | 0.5                        | 2.2                    |

Note: \* These items are supplied to order and subject to minimum production runs.

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.



## Instrumentation POWER Cable Overall Screened Multi Core

**Application:** Internal and external inter-connections of electronic apparatus such as computers, intercoms, telemetering, signaling and alarm systems.

**Conductor:** Plain Annealed Copper wire (AS/NZS 1125)

**Insulation:** PVC V75

**Core Colour:** (2C+E) Red, Black + Green/Yellow

(3C+E) Red, White, Blue + Green/Yellow

(4C+E) Red, White, Blue, Black + Green/Yellow

**Screen:** Aluminum tape screen, polyester mylar tape lapping and 7/0.20mm tinned copper drain wire.

**Sheath:** PVC V75 Blue

**Voltage:** 0.6/1 kV

**Standard:** AS/NZS 3808 (PVC)

### CAUTION

**Low Voltage – Should NOT be connected to mains power supply**

### Typical Features:

| Electra Cables<br>Part No. | No. of<br>Cores | Stranding<br>No./mm | Nom. area<br>mm <sup>2</sup> | Nom. O/D.<br>mm | Insulation<br>Thickness mm | Sheath<br>Thickness mm |
|----------------------------|-----------------|---------------------|------------------------------|-----------------|----------------------------|------------------------|
| EAS70503C+E                | 3C+E            | 7/0.50              | 1.5                          | 10.95           | 0.8                        | 1.8                    |
| EAS76702C+E                | 2C+E            | 7/0.67              | 2.5                          | 11.6            | 0.8                        | 1.8                    |
| EAS76703C+E                | 3C+E            | 7/0.67              | 2.5                          | 12.5            | 0.8                        | 1.8                    |
| EAS76704C+E                | 4C+E            | 7/0.67              | 2.5                          | 13.6            | 0.8                        | 1.8                    |
| EAS78502C+E                | 2C+E            | 7/0.85              | 4.0                          | 12.4            | 1.0                        | 1.8                    |
| EAS78503C+E                | 3C+E            | 7/0.85              | 4.0                          | 13.8            | 1.0                        | 1.8                    |
| EAS78504C+E                | 4C+E            | 7/0.85              | 4.0                          | 14.8            | 1.0                        | 1.8                    |
| EAS71042C+E                | 2C+E            | 7/1.04              | 6.0                          | 14.5            | 1.0                        | 1.8                    |
| EAS71043C+E                | 3C+E            | 7/1.04              | 6.0                          | 15.3            | 1.0                        | 1.8                    |
| EAS71044C+E                | 4C+E            | 7/1.04              | 6.0                          | 17.5            | 1.0                        | 1.8                    |
| EAS71353C+E                | 3C+E            | 7/1.35              | 10.0                         | 17.6            | 1.0                        | 1.8                    |
| EAS71703C+E                | 3C+E            | 7/1.70              | 16.0                         | 20.25           | 1.0                        | 1.8                    |

**Note:** Other types or other lengths of the above cables can be manufactured according to customers' specifications.