

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 Ω /100m

Characteristic Impedance (at 100kHz): 64 Ω

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 ² | 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 Ω /100m

Crosstalk between Pairs at 1 kHz: 78

at 100kHz: 53

Characteristic Impedance (at 100 kHz): 89 Ω

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 ² | 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 Ω /100m

Crosstalk between Pairs at 1 kHz: 96

at 100 kHz: 75

Characteristic Impedance (at 100 kHz): 78 Ω

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 ² | Nom. O/D. mm | Sheath Thickness mm | Cable Weight Kg/100m |
|-------------------------|--------------|------------------|---------------------------|--------------|---------------------|----------------------|
| EAS7251T1PPE* | 1 | 7/0.25 | 0.34 | 4.6 | 0.8 | 2.2 |
| EAS72503 | 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 (Ω) |
|----------------------------|--|--------------------------------|------------------------------|----------------------------|---------------------------------------|---|
| 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 ² | 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 ² | 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 Part No. | No. of Pairs | Stranding No./mm | Nom. area mm ² | Nom. O/D. mm | Insulation Thickness mm | Sheath 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 ² | 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 ² | 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 Part No. | No. of Pairs | Stranding No./mm | Nom. area mm ² | Nom. O/D. mm | Insulation Thickness mm | Sheath 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 Part No. | No. of Cores | Stranding No./mm | Nom. area mm ² | Nom. O/D. mm | Insulation Thickness mm | Sheath 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.