

# DATA & COMMUNICATION CABLE

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COAXIAL AND CCTV CABLE



# Overall Screen 0.8mm<sup>2</sup> (DMF)

Data Grade Polyethylene insulated

## Applications

Data Communication, HVAC Controls and Building Management Cable

## Product Specifications

### Construction:

**Conductor:** Tinned Annealed Copper to AS/NZS1125

**Insulation:** Data Grade Polyethylene

**Screen:** Aluminium Screen with a 7/0.2 Tinned copper drain wire

**Sheath:** Coloured 4V75 PVC to AS/NZS3808

### Core Identification

1. Black, 2. White, 3. Red, 4. Blue



| Current Code | New Code   | No. of Cores | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Electrical Resistance @ 20°C (Ω/KM) | Nominal OD |
|--------------|------------|--------------|---------------------------------|-------------------|-------------------------------------|------------|
| DMF2704      | DMF02/0.8  | 2            | 0.8                             | 7/0.4             | 22.7                                | 4.9        |
| DMF3704      | DMF03/0.8  | 3            | 0.8                             | 7/0.4             | 22.7                                | 5.3        |
| DMF4704      | DMF04/0.8  | 4            | 0.8                             | 7/0.4             | 22.7                                | 5.9        |
| DMF6704      | DMF06/0.85 | 6            | 0.85                            | 7/0.4             | 22.7                                | 6.9        |
| DMF8704      | DMF08/0.85 | 8            | 0.85                            | 7/0.4             | 22.7                                | 7.6        |

# Overall Screen (DMF DQQ)

8723 / 8760 / 8761 / 8770 Equivalent

Data Grade Polyethylene Insulated

## Applications

Data Communication, Industrial Equipment Control.

## Product Specifications

### Construction:

**Conductor:** Tinned Annealed Copper to AS/NZS1125

**Insulation:** Data Grade Polyethylene

**Screen:** Aluminium Screen with a 7/0.2 Tinned copper drain wire

**Sheath:** Coloured 4V75 PVC to AS/NZS3808

**Relevant Standard:** AUSTEL CCL 95/CA/0053

### Core Identification

1. Black, 2. Red, 3. White, 4. Green



| Current Code                         | New Code      | No. of Cores | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Electrical Resistance @ 20°C (Ω/KM) | Nominal OD | Wires to Wire (pF/m) | Conductor to Screen (pF/m) |
|--------------------------------------|---------------|--------------|---------------------------------|-------------------|-------------------------------------|------------|----------------------|----------------------------|
| DMF27025                             | DMF02/0.32    | 2            | 0.34                            | 7/0.25            | 55.9                                | 4.6        | 79                   | 154                        |
| DMF216025                            | DMF02/0.85    | 2            | 0.85                            | 16/0.25           | 22.7                                | 6.1        | 79                   | 144                        |
| DMF316025                            | DMF03/0.85    | 3            | 0.85                            | 16/0.25           | 22.7                                | 6.5        | 79                   | 157                        |
| Belden 8723 Equivalent and Composite |               |              |                                 |                   |                                     |            | Impedance (Ω)        | Capacitance (pF/m)         |
| DQQ47025                             | DQQ02P/0.34   | 4            | 0.34                            | 7/0.25            | 57.4                                | 4.4        | 79                   | 154                        |
| DQQ47067                             | DQQ02P+E/0.34 | 4            | 0.34                            | 7/0.25            | 57.4                                | 5.4 x 9.2  | 79                   | 144                        |
|                                      |               | 1            | 2.5                             | 7/0.67            | 7.4                                 |            | 79                   | 154                        |

# Screened 0.22mm<sup>2</sup> / 0.44mm<sup>2</sup> Data Cable - Cores (DMC & DMS)

V75 PVC insulated RS232

## Applications

Data Communication, Interface Cable.

## Product Specifications

### Construction:

**Conductor:** Class 5 stranded copper to AS1125

*\*Also Available in Tinned Copper\**

**Insulation:** Coloured V75 PVC to AS/NZS 3808

**Screen:** Aluminium Screen with a 7/0.2 Tinned copper drain wire

**Sheath:** Coloured 4V75 PVC to AS/NZS3808

**Relevant Standard:** AUSTEL A93/CA/0123



## Core Identification

|           |           |                |                 |                  |
|-----------|-----------|----------------|-----------------|------------------|
| 1. Red    | 6. Black  | 11. Tan        | 16. White/Red   | 21. Blue/Black   |
| 2. Blue   | 7. Brown  | 12. Grey       | 17. Red/Black   | 22. Orange/Blue  |
| 3. Green  | 8. Violet | 13. Red/Blue   | 18. Red/Tan     | 23. Blue/Green   |
| 4. Yellow | 9. Orange | 14. Red/Green  | 19. Yellow/Blue | 24. Grey/Blue    |
| 5. White  | 10. Pink  | 15. Yellow/Red | 20. White/Blue  | 25. Yellow/Green |

| Current Code | New Code   | No. of Cores | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Amp Rating @ 30°C | Electrical Resistance @ 20°C (Ω/KM) | Nominal OD | Nominal Wire to Wire Capacitance (pF/m) |
|--------------|------------|--------------|---------------------------------|-------------------|-------------------|-------------------------------------|------------|-----------------------------------------|
| DMC4702      | DMC04/0.22 | 4            | 0.22                            | 7/0.2             | 1.4               | 89.5                                | 4.55       | 90                                      |
| DMC6702      | DMC06/0.22 | 6            | 0.22                            | 7/0.2             | 1.4               | 89.5                                | 5.4        | 90                                      |
| DMC8702      | DMC08/0.22 | 8            | 0.22                            | 7/0.2             | 1.4               | 89.5                                | 5.6        | 90                                      |
| DMC12702     | DMC12/0.22 | 12           | 0.22                            | 7/0.2             | 1.4               | 89.5                                | 6.6        | 90                                      |
| DMC18702*    | DMC18/0.22 | 18           | 0.22                            | 7/0.2             | 1.4               | 89.5                                | 7.6        | 90                                      |
| DMC25702     | DMC25/0.22 | 25           | 0.22                            | 7/0.2             | 1.4               | 89.5                                | 8.8        | 90                                      |
| DMC41402     | DMC04/0.44 | 4            | 0.44                            | 14/0.2            | 2.8               | 89.5                                | 5.3        | 100                                     |
| DMC71402     | DMC07/0.44 | 7            | 0.44                            | 14/0.2            | 2.8               | 89.5                                | 6.2        | 100                                     |

\* MTO please enquire

*\*For Tinned Conductor use Code Prefix DMS\**

#allyo

# Screened 0.22mm<sup>2</sup> Data Cable - Pairs (DPF)

Data Grade Polypropylene insulated RS422

## Applications

Data Communication, Balanced Mode, Low Capacitance.

## Product Specifications

### Construction:

**Conductor:** Tinned Annealed Copper to AS/NZS1125

**Insulation:** Coloured V75 PVC to AS/NZS 3808

**Screen:** Aluminium Screen with a 7/0.2 Tinned copper drain wire

**Sheath:** Coloured 4V75 PVC to AS/NZS3808

**Relevant Standard:** AUSTEL A93/CA/0111

### Core Identification

|                               |                             |                                  |
|-------------------------------|-----------------------------|----------------------------------|
| Pair 1: White/Blue & Blue     | Pair 5: White/Grey & Grey   | Pair 9: Red/Tan & Brown          |
| Pair 2: White/Orange & Orange | Pair 6: Red/Blue & Blue     | Pair 10: Red/Grey & Grey         |
| Pair 3: White/Green & Green   | Pair 7: Red/Orange & Orange | Pair 11: Black/Light Blue & Blue |
| Pair 4: White/Brown & Brown   | Pair 8: Red/Green & Green   | Pair 12: Black/Orange & Orange   |

*\*Core colours for 18 Pair and 25 Pair available upon request\**

| Current Code              | New Code     | No. of Pairs | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Amp Rating @ 30 °C | Electrical Resistance @ 20 °C (Ω/KM) | Nominal OD | Wires of a Pair Capacitance (pF/m) |
|---------------------------|--------------|--------------|---------------------------------|-------------------|--------------------|--------------------------------------|------------|------------------------------------|
| DPF2702                   | DAMO-2/0.2T  | 1            | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 4.2        | 50                                 |
| DPF4702                   | DAMO-4/0.2T  | 2            | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 5.8        | 50                                 |
| DPF6702                   | DAMO-6/0.2T  | 3            | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 6.2        | 50                                 |
| DPF8702*                  | DAMO-8/0.2T  | 4            | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 6.6        | 50                                 |
| DPF12702*                 | DAMO-12/0.2T | 6            | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 7.7        | 50                                 |
| DPF16702*                 | DAMO-16/0.2T | 8            | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 8.5        | 50                                 |
| DPF20702*                 | DAMO-20/0.2T | 10           | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 9.4        | 50                                 |
| DPF24702*                 | DAMO-24/0.2T | 12           | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 10         | 50                                 |
| DPF36702*                 | DAMO-36/0.2T | 18           | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 12         | 50                                 |
| DPF50702*                 | DAMO-50/0.2T | 25           | 0.22                            | 7/0.2             | 1.4                | 90.9                                 | 13.3       | 50                                 |
| LSZH Screened and Braided |              |              |                                 |                   |                    |                                      |            |                                    |
| DCX27020                  | DCX02/0.22   | 2            | 0.22                            | 7/0.2             | 1.4                | 85                                   | 6.55       | 48                                 |
| DCX47020                  | DCX04/0.22   | 4            | 0.22                            | 7/0.2             | 1.4                | 94.2                                 | 8.6        | 42                                 |

# Telephone Cable (TFX)

High-density Polyethylene Insulated

## Applications

Telecommunications

## Product Specifications

### Construction:

**Conductor:** Plain Annealed Copper to AS/NZS1125

Drawn from Class 110A Copper AS/NZS1574

**Insulation:** Coloured High-density polyethylene Insulation

**Sheath:** Low-density polyethylene

**Relevant Standard:** AS/NZS1574, AS3808,

**Core Configuration:** Pair 1. White & Blue, Pair 2. Red & Black



| Current Code | New Code    | Pairs | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Capacitance Between Wires of Pairs (nF/Km) | Electrical Resistance @ 20° c (Ω/KM) | Nominal OD |
|--------------|-------------|-------|---------------------------------|-------------------|--------------------------------------------|--------------------------------------|------------|
| TFX41063     | TFX02P/0.63 | 2     | 0.63                            | 1/0.63            | 43.8                                       | 57                                   | 6          |

# Lan Cables

## (DPA, DPZ, DPAS, DPXA)

HDPE Insulated UTP, FTP, STP and External rated

### Applications

CCTV, Network Solutions, Access Control, Data Transmission.

### Product Specifications

#### Construction:

**Conductor:** Plain Annealed Copper to AS1125

Drawn from Class 110A Copper AS/NZS1574

**Insulation:** Coloured HDPE Insulation

**Sheath:** CAT6 Coloured V75 PVC to AS/NZS3808

CAT5 - Coloured V75 PVC to AS/NZS3808

CAT6A Shielded - Coloured V75 PVC to AS/NZS3808

CAT6 Exterior and Screened - LDPE Sheath

**Relevant Standard:** AS/NZS1125, AS/NZS1574, AS/NZS3808

#### Available Colours :

Red ● White ○ Grey ● Yellow ●  
Violet ● Black ● Blue ● Green ●



| Current Code           | New Code       | No of Pairs | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Electrical Resistance @ 20°c (0/100 KM) | Nominal OD |
|------------------------|----------------|-------------|---------------------------------|-------------------|-----------------------------------------|------------|
| CAT6                   |                |             |                                 |                   |                                         |            |
| DPA81051               | DPA04P-UTP     | 4           | 0.5                             | 1/0.55            | 9.5                                     | 6.2        |
| CAT6A Shielded         |                |             |                                 |                   |                                         |            |
| DPXA81051*             | DPAX04P-UTP    | 4           | 0.5                             | 1/0.55            | 7.2                                     | 7.5        |
| CAT6 External          |                |             |                                 |                   |                                         |            |
| DPA81051EXT            | DPA04P-UTP-EXT | 4           | 0.5                             | 1/0.55            | 9.5                                     | 7.5        |
| CAT6 External Screened |                |             |                                 |                   |                                         |            |
| DPAS81051              | DPAS04P-UTP    | 4           | 0.5                             | 1/0.55            | 9.38                                    | 7.4        |
| CAT5                   |                |             |                                 |                   |                                         |            |
| DPZ81051               | DPZ04P-UTP     | 4           | 0.21                            | 1/0.21            | 10                                      | 4.9        |

\* MTO please enquire

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# Coaxial and CCTV Cable (CCE, CCF)

Low-density Polyethylene Insulation

## Applications

CCTV, Signal cable.

## Product Specifications

### Construction:

**Conductor:** Plain Annealed Copper to AS/NZS1125

Drawn from Class 102 Oxygen Free copper to AS/NZS1574

**Insulation:** RG Signal cable: Low-density Polyethylene

**Twin Power Cable:** Coloured V75 PVC

**RG Coaxial Screen:** Plain Annealed Copper Braid (min 94% coverage)

**Sheath:** Coloured 4V75 PVC to AS/NZS3808

**Relevant Standard:** AS/NZS1125, AS/NZS1574, AS/NZS3808



| Code                | Description      | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Electrical Resistance @ 20° c (Ω/KM) | Nominal OD |
|---------------------|------------------|---------------------------------|-------------------|--------------------------------------|------------|
| CCE11057*           | RG59             | 0.58                            | 1/0.58            |                                      | 6.15       |
| CCE59224*           | RG59             | 0.58                            | 1/0.58            |                                      | 10.2       |
|                     | + 2 core Round   | 0.75                            | 24/0.2            | 26                                   |            |
| CCE59275            | RG59             | 0.58                            | 1/0.58            |                                      | 12.6 x 7.8 |
|                     | + 2 core Diamond | 0.75                            | 24/0.2            | 26                                   |            |
| CCF119018*          | RG58             | 0.9                             | 19/0.18           |                                      | 4.95       |
| Cat5/Cat6 Composite |                  |                                 |                   |                                      |            |
| CCE52024*           | 4 Pair Data      | 0.51                            | 1/0.51            |                                      |            |
|                     | + 2 Power        | 0.75                            | 24/0.2            | 26                                   | 10.5       |

### Electrical Characteristics

**Typical Impedance:**

RG59

75 ohms

RG58

50 ohms

**Typical Capacitance at 1Khz:**

67 pF/m

101 pF/m

**Velocity of Propagation ratio:**

66%

66%

**Attenuation at 200MHz (typical):** 16.1dB

\* MTO please enquire

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