

# AUTOMOTIVE & MARINE CABLE

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# 2 Core Figure 8 (AFC, MFS, AFLS)

V90 PVC insulated

## Applications

Trailer Wiring, 12/24VDC Low Voltage Applications e.g. Access Control

## Product Specifications

### Construction:

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

Drawn from Class 102 & 110 copper to AS/NZS1574

**Insulation:** Coloured V90 PVC to AS/NZS 3808 and LSZH Available

**Sheath:** N/A

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

### Core Configuration:

Red with Black stripe, Black with Red stripe



| 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 |
|--------------|------------------|--------------|---------------------------------|-------------------|--------------------|--------------------------------------|------------|
| AFC21603     | AUFE-3           | 2            | 1.13                            | 16                | 20                 | 16.5                                 | 2.6 x 5.9  |
| AFC22603     | AUFE-4           | 2            | 1.84                            | 22                | 28                 | 10.1                                 | 3.1 x 6.7  |
| Tinned       |                  |              |                                 |                   |                    |                                      |            |
| MFS21603     | MAFE-3T          | 2            | 1.13                            | 16                | 48                 | 16.5                                 | 2.6 x 5.9  |
| MFS22603     | MAFE-4T          | 2            | 1.84                            | 22                | 20                 | 10.1                                 | 3.1 x 6.7  |
| LSZH         |                  |              |                                 |                   |                    |                                      |            |
| AFLS214032   | AFLS02/1.13-RDGL | 2            | 1.13                            | 16                | 37                 | 16.5                                 | 2.6 x 5.9  |

| Derating Factors for Ambient Temperatures °C |    |     |      |      |      |
|----------------------------------------------|----|-----|------|------|------|
| Temperature                                  | 30 | 40  | 50   | 60   | 70   |
| Factor                                       | 1  | 0.9 | 0.76 | 0.60 | 0.45 |

# Twin Sheath 2 Core Flat (AWC)

V90 PVC insulated

## Applications

Trailer Wiring, 12/24VDC Low Voltage Applications e.g. Access Control

## Product Specifications

### Construction:

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

Drawn from Class 110A copper to AS/NZS1574

**Insulation:** Coloured V90 PVC to AS/NZS 3808

**Sheath:** Coloured 5V90 PVC to AS/NZS3808

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

**Core Configuration:** 1. Red, 2. Black.



| Current Code | New Code | No. of Cores | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Amp Rating @ 30 °c | Electrical Resistance @ 20 °c (0/KM) | Nominal OD  |
|--------------|----------|--------------|---------------------------------|-------------------|--------------------|--------------------------------------|-------------|
| AWC27032     | AUTS-2   | 2            | 0.5                             | 7/0.32            | 8                  | 33                                   | 3.1 x 4.9   |
| AWC21603     | AUTS-3   | 2            | 1.13                            | 16/0.3            | 16                 | 16.5                                 | 3.3 x 5.5   |
| AWC22603     | AUTS-4   | 2            | 1.84                            | 26/0.3            | 22                 | 10.1                                 | 3.8 x 6.3   |
| AWC24103     | AUTS-5   | 2            | 3.0                             | 41/0.3            | 29                 | 6.4                                  | 4.5 x 7.4   |
| AWC26503     | AUTS-6   | 2            | 5.0                             | 65/0.3            | 38                 | 4.1                                  | 5.7 x 9.6   |
| AWC296032    | AUTB-8   | 2            | 7.71                            | 96/0.32           | 59                 | 2.4                                  | 7.1 x 12.5  |
| AWC2168032   | AUTB-6   | 2            | 13.5                            | 168/0.32          | 82                 | 1.4                                  | 8.8 x 16    |
| AWC2252032   | AUTB-4   | 2            | 20.26                           | 252/0.32          | 150                | 0.9                                  | 10.3 x 18.6 |

### Derating Factors for Ambient Temperatures °C

| Temperature | 30 | 40  | 50   | 60   | 70   |
|-------------|----|-----|------|------|------|
| Factor      | 1  | 0.9 | 0.76 | 0.60 | 0.45 |

# Marine Twin Sheath 2 Core Flat (MWS)

V90 PVC insulated

## Applications

Trailer Wiring, 12/24VDC Low Voltage Applications

## Product Specifications

### Construction:

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

Drawn from Class 102 copper to AS/NZS1574

**Insulation:** Coloured V90 PVC to AS/NZS 3808

**Sheath:** Coloured 5V90 PVC to AS/NZS3808

**Relevant Standards:** AS/NZS3808, AS/NZS1125, & AS/NZS1574

**Core Configuration:** 1. Red, 2. Black



| 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 |
|--------------|----------|--------------|---------------------------------|-------------------|---------------------|--------------------------------------|------------|
| MWS21603     | MATS-3T  | 2            | 1.13                            | 16/0.3            | 16                  | 16.5                                 | 3.7 x 5.8  |
| MWS22603     | MATS-4T  | 2            | 1.84                            | 26/0.3            | 22                  | 10.1                                 | 4.1 x 6.6  |
| MWS26503     | MATS-6T  | 2            | 4.5                             | 65/0.3            | 38                  | 4.1                                  | 5.9 x 9.9  |
| MWS296032    | MATB-8T  | 2            | 8                               | 96/0.3            | 59                  | 2.4                                  | 7.1 x 12.5 |

\*Amp Rating to JASO D609 derating factors apply.

### Derating Factors for Ambient Temperatures °C

| No of Cables | 1 | 2    | 3    | 4    | 5    | 6-7  | 8-10 | 11-12 |
|--------------|---|------|------|------|------|------|------|-------|
| Factor       | 1 | 0.80 | 0.70 | 0.60 | 0.55 | 0.50 | 0.45 | 0.40  |

### Derating Factors for Ambient Temperatures °C

| Temperature | 30 | 40  | 50   | 60   | 70   |
|-------------|----|-----|------|------|------|
| Factor      | 1  | 0.9 | 0.76 | 0.60 | 0.45 |

# Battery / Starter (ABC)

V90 PVC insulated

## Applications

Battery and Starter cable

## Product Specifications

### Construction:

**Conductor:** Plain Annealed Copper

Drawn from Class 102 copper to AS/NZS1574

**Insulation:** Coloured V90 PVC to AS/NZS 3808

**Sheath:** Coloured V90 PVC to AS/NZS3808

**Relevant Standard:** AS/NZS3808, AS/NZS1125, AS/NZS1574 and SAE J1127

Rated to 60Volt

### Available Colours:



Red



Black



| Current Code | New Code  | Nearest B&S | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Amp Rating @ 30 °C* | Electrical Resistance @ 20 °C (0/KM) | Nominal OD |
|--------------|-----------|-------------|---------------------------------|-------------------|---------------------|--------------------------------------|------------|
| ABC111203    | AUBS-8    | 8           | 7.71                            | 96/0.32           | 74                  | 2.40                                 | 5.5        |
| ABC119203    | AUBS-6    | 6           | 13.5                            | 168/0.32          | 103                 | 1.40                                 | 7.2        |
| ABC128703    | AUBS-4    | 4           | 20.26                           | 252/0.32          | 135                 | 0.90                                 | 8.3        |
| ABC136403    | AUBS-3    | 3           | 26.45                           | 329/0.32          | 168                 | 0.70                                 | 10.2       |
| ABC145503    | AUBS-2    | 2           | 32.07                           | 399/0.32          | 188                 | 0.60                                 | 11.3       |
| ABC1492032   | AUBS-1    | 1           | 39.55                           | 492/0.32          | 210                 | 0.50                                 | 12.1       |
| ABC1612032   | AUBS-0    | 0           | 49.00                           | 608/0.32          | 246                 | 0.40                                 | 12.7       |
| ABC191003    | AUBS-00   | 2/0         | 64.15                           | 798/0.32          | 292                 | 0.30                                 | 14.5       |
| ABC1120403   | AUBS-000  | 3/0         | 83.19                           | 1035/0.32         | 335                 | 0.23                                 | 16.4       |
| ABC1148203   | AUBS-0000 | 4/0         | 99.27                           | 1235/0.32         | 399                 | 0.18                                 | 17.5       |

\*Amp Rating to JASO D609 derating factors apply.

### Derating Factors for Ambient Temperatures °C

| No of Cables | 1 | 2    | 3    | 4    | 5    | 6-7  | 8-10 | 11-12 |
|--------------|---|------|------|------|------|------|------|-------|
| Factor       | 1 | 0.80 | 0.70 | 0.60 | 0.55 | 0.50 | 0.45 | 0.40  |

### Derating Factors for Ambient Temperatures °C

| Temperature | 30 | 40  | 50   | 60   | 70   |
|-------------|----|-----|------|------|------|
| Factor      | 1  | 0.9 | 0.76 | 0.60 | 0.45 |

# Marine Battery / Starter (MBS)

V90 PVC Insulated

## Applications

Marine Battery and Starter Cable

## Product Specifications

### Construction:

**Conductor:** Tinned Annealed Copper

Drawn from Class 110A copper to AS/NZS1574

**Insulation:** Coloured V90 PVC to AS/NZS3808

**Relevant Standard:** AS/NZS3808, AS/NZS1125, AS/NZS1574 and SAE J1127



| Current Code | New Code | Voltage Rating | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Amp Rating @ 30°C* | Electrical Resistance @ 20°C (0/KM) | Nominal OD |
|--------------|----------|----------------|---------------------------------|-------------------|--------------------|-------------------------------------|------------|
| MBS111203    | MABS-8T  | 60V d.c.       | 8                               | 96/0.32           | 74                 | 2.50                                | 5.75       |
| MBS122403    | MASP-16T | 60V d.c.       | 16                              | 224/0.30          | 110                | 1.24                                | 7.80       |
| MBS136403    | MABS-3T  | 60V d.c.       | 25                              | 329/0.32          | 168                | 0.79                                | 10.2       |
| MBS145503    | MABS-2T  | 60V d.c.       | 32                              | 399/0.32          | 188                | 0.62                                | 10.3       |
| MBS149403*   | MABS-1T  | 60V d.c.       | 35                              | 492/0.32          | 210                | 0.56                                | 11.4       |
| MBS172803*   | MABS-0T  | 60V d.c.       | 50                              | 708/0.30          | 56                 | 0.39                                | 13.20      |

\*MTO - please enquire

\*Amp Rating to JASO D609 derating factors apply.

### Derating Factors for Ambient Temperatures °C

| No of Cables | 1 | 2    | 3    | 4    | 5    | 6-7  | 8-10 | 11-12 |
|--------------|---|------|------|------|------|------|------|-------|
| Factor       | 1 | 0.80 | 0.70 | 0.60 | 0.55 | 0.50 | 0.45 | 0.40  |

### Derating Factors for Ambient Temperatures °C

| Temperature | 30 | 40  | 50   | 60   | 70   |
|-------------|----|-----|------|------|------|
| Factor      | 1  | 0.9 | 0.76 | 0.60 | 0.45 |

# Single Core AVS Thin Wall (AUD)

V90HT PVC insulated 105°C

(Low Voltage, 80°C as per JASO D611)

## Applications

Harness and Wiring Loom Manufacturing

## Product Specifications

### Construction:

**Conductor:** Plain Annealed Copper to AS/NZS1125 and JIS-C3102

Drawn from Class 110A copper to AS/NZS1574

**Insulation:** Coloured V90HT PVC to AS/NZS 3808

and to meet performance criteria of JASO D611

### Relevant Standards:

AS/NZS3808, AS/NZS1125, AS/NZS1574, JASO D611, JASO D609, and JIS-C3102

### Available Colours:

- |          |         |          |                               |
|----------|---------|----------|-------------------------------|
| ● Black  | ● Green | ● Blue   | ● Brown                       |
| ● Orange | ● Pink  | ● Red    | ● Grey                        |
| ● Violet | ○ White | ● Yellow | *stripes available by request |



| Current Code | New Code  | Nearest SAE (B&S) AWG | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Amp Rating @ 30°C* | Electrical Resistance @ 20°C (Ω/KM) | Nominal OD |
|--------------|-----------|-----------------------|---------------------------------|-------------------|--------------------|-------------------------------------|------------|
| AUD17026     | AUVS-0.37 | 21 /½                 | 0.37                            | 7/0.26            | 10                 | 50                                  | 1.7        |
| AUD17032     | AUVS-0.5  | 20                    | 0.56                            | 7/0.32            | 13                 | 32.7                                | 1.9        |
| AUD116026    | AUVS-0.85 | 18                    | 0.85                            | 16/0.26           | 17                 | 22                                  | 2.1        |
| AUD116032    | AUVS-1.25 | 16                    | 1.29                            | 16/0.32           | 20                 | 14.3                                | 2.4        |
| AUD126032    | AUVS-2    | 14                    | 2.09                            | 26/0.32           | 31                 | 8.8                                 | 2.9        |
| AUD141032    | AUVS-3    | 12                    | 3.30                            | 41/0.32           | 42                 | 5.5                                 | 3.55       |
| AUD165032    | AUVS-5    | 10                    | 5.22                            | 65/0.32           | 56                 | 3.5                                 | 4.35       |

\*Amp Rating to JASO D609 derating factors apply.

### Derating Factors for Ambient Temperatures °C

| No of Cables | 1 | 2    | 3    | 4    | 5    | 6-7  | 8-10 | 11-12 |
|--------------|---|------|------|------|------|------|------|-------|
| Factor       | 1 | 0.80 | 0.70 | 0.60 | 0.55 | 0.50 | 0.45 | 0.40  |

### Derating Factors for Ambient Temperatures °C

| Temperature | 30 | 40  | 50   | 60   | 70   |
|-------------|----|-----|------|------|------|
| Factor      | 1  | 0.9 | 0.76 | 0.60 | 0.45 |

# Low Tension Single Core (ASC)

V90 PVC insulated

## Applications

General Purpose Automotive Wiring

## Product Specifications

### Construction:

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

Drawn from Class 102 copper to AS/NZS1574

**Insulation:** Coloured V90 PVC to AS/NZS 3808

**Sheath:** N/A

**Relevant Standards:** AS/NZS3808, AS/NZS1125, & AS/NZS1574.

### Available Colours:

- |          |         |                |
|----------|---------|----------------|
| ● Black  | ● Green | ● Green/Yellow |
| ● Blue   | ● Brown | ● Orange       |
| ● Pink   | ● Red   | ● Grey         |
| ● Violet | ○ White | ● Yellow       |



| 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 |
|--------------|----------|--------------|---------------------------------|-------------------|-------------------|-------------------------------------|------------|
| ASC11603     | AUSC-3   | 1            | 1.13                            | 14/0.32           | 20                | 16.5                                | 2.2        |
| ASC12603     | AUSC-4   | 1            | 1.84                            | 23/0.32           | 28                | 10.1                                | 2.6        |
| ASC14103     | AUSC-5   | 1            | 2.90                            | 36/0.32           | 37                | 6.4                                 | 3.0        |
| ASC16503     | AUSC-6   | 1            | 4.59                            | 57/0.32           | 48                | 4.1                                 | 4.0        |

| Derating Factors for Ambient Temperatures °C |    |     |      |      |      |
|----------------------------------------------|----|-----|------|------|------|
| Temperature                                  | 30 | 40  | 50   | 60   | 70   |
| Factor                                       | 1  | 0.9 | 0.76 | 0.60 | 0.45 |

# Multicore Trailer Cable (ATC, AWM, ATH)

V90 PVC insulated

## Applications

Caravan and Trailer Wiring, 12/24VDC Low Voltage Applications

## Product Specifications

### Construction:

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

Drawn from Class 110A copper to AS/NZS1574

**Insulation:** Coloured V90 PVC to AS/NZS 3808

**Sheath:** Coloured 5V90 PVC to AS/NZS3808

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

**Core Configuration:** 1. White, 2. Yellow, 3. Brown, 4. Red, 5. Green, 6. Black, 7. Blue



| Current Code | New Code   | No. of Cores | Nominal Area (mm <sup>2</sup> ) | Strand No. / Size | Amp Rating @ 30°c* | Electrical Resistance @ 20°c (0/KM) | Nominal OD |
|--------------|------------|--------------|---------------------------------|-------------------|--------------------|-------------------------------------|------------|
| ATC31603     | AUTR-3/3   | 3            | 1.13                            | 14/0.32           | 14                 | 16.8                                | 5.7        |
| ATC47032     | AUTR-4/2   | 4            | 0.56                            | 7/0.32            | 7                  | 33.1                                | 5.6        |
| ATC57032     | AUTR-5/2   | 5            | 0.56                            | 7/0.32            | 7                  | 33.1                                | 6.0        |
| ATC5903      | AUTR-5/2.5 | 5            | 0.64                            | 8/0.32            | 8                  | 29.9                                | 6.7        |
| ATC51603     | AUTR-5/3   | 5            | 1.13                            | 14/0.32           | 11                 | 16.8                                | 7.1        |
| ATC52603     | AUTR-5/4   | 5            | 1.84                            | 23/0.32           | 15                 | 10.3                                | 8.2        |
| ATC77032     | AUTR-7/2   | 7            | 0.56                            | 7/0.32            | 5                  | 33.1                                | 6.7        |
| ATC7903      | AUTR-7/2.5 | 7            | 0.64                            | 8/0.32            | 6                  | 29.9                                | 7.3        |
| ATC71603     | AUTR-7/3   | 7            | 1.13                            | 14/0.32           | 10                 | 16.8                                | 7.7        |
| ATC72603     | AUTR-7/4   | 7            | 1.84                            | 23/0.32           | 14                 | 10.3                                | 8.9        |

### Flat Trailer Cable

|            |            |   |     |         |   |      |            |
|------------|------------|---|-----|---------|---|------|------------|
| AWM719019* | AUTF-7/0.5 | 7 | 0.5 | 19/0.19 | 5 | 33.1 | 4.4 x 17.5 |
|------------|------------|---|-----|---------|---|------|------------|

### Road Train - ADR 63 - Heavy Duty

|           |              |       |      |         |    |      |      |
|-----------|--------------|-------|------|---------|----|------|------|
| ATH565032 | AUTH-5/6     | 5     | 5.22 | 65/0.32 | 30 | 3.6  | 14.7 |
| ATH765032 | AUTH-7/6     | 6     | 5.22 | 65/0.32 | 28 | 3.6  | 16.5 |
| ATH0845   | AUTH-6/3/1/4 | 6 + 1 | 1.13 | 14/0.32 | 20 | 16.5 | 7.80 |
|           |              |       | 2.00 | 26/0.32 | 31 | 8.8  | 11.5 |

\* MTO - Please enquire

\*Amp Rating to JASO D609 derating factors apply.

### Derating Factors for Ambient Temperatures °C

| Temperature | 30 | 40  | 50   | 60   | 70   |
|-------------|----|-----|------|------|------|
| Factor      | 1  | 0.9 | 0.76 | 0.60 | 0.45 |

# Marine Multicore Trailer Cable (MTT, MTS)

V90 PVC insulated

## Applications

Marine Trailer Wiring, 12/24VDC Low Voltage Applications.

## Product Specifications

### Construction:

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

Drawn from Class 102 copper to AS/NZS1574

**Insulation:** Coloured V90 PVC to AS/NZS 38088

**Sheath:** Coloured 5V90 PVC to AS/NZS3808

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

### Core Configuration:

1. White, 2. Yellow, 3. Brown, 4. Red, 5. Green, 6. Black, 7. Blue



| 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 |
|--------------|-------------|--------------|---------------------------------|-------------------|---------------------|--------------------------------------|------------|
| MTS32603     | MATR-3/4T   | 3            | 1.84                            | 26/0.3            | 19                  | 7.2                                  | 7.2        |
| MTT51602     | MATR-5/0.5T | 5            | 0.5                             | 16/0.2            | 6                   | 5.4                                  | 5.4        |
| MTT53202     | MATR-5/1T   | 5            | 1                               | 32/0.2            | 8                   | 7.2                                  | 7.2        |
| MTT71602     | MATR-7/0.5T | 7            | 0.5                             | 16/0.2            | 6                   | 5.4                                  | 5.9        |
| MTT73202     | MATR-7/1T   | 7            | 1                               | 32/0.2            | 7                   | 7.8                                  | 7.8        |

\*Amp Rating to JASO D609 derating factors apply.

### Derating Factors for Ambient Temperatures ° C

| Temperature | 30 | 40  | 50   | 60   | 70   |
|-------------|----|-----|------|------|------|
| Factor      | 1  | 0.9 | 0.76 | 0.60 | 0.45 |