



# Automotive Twin Sheath

## Automotive Twin Sheath Cable V90 V90 PVC Insulation and Sheathed to AS3191

**RoHS Compliant**

|                     |                                  |
|---------------------|----------------------------------|
| <b>Application:</b> | Trailer wiring                   |
| <b>Conductor:</b>   | Plain Copper Conductor to AS1125 |
| <b>Insulation:</b>  | V90 to AS3191                    |
| <b>Sheath:</b>      | V90 to AS3191                    |
| <b>Colors:</b>      | Red & black cores, black sheath. |
| <b>Pack Size:</b>   | 30mt, 100mt and 500mt.           |

**Voltage Rating AC 50V / DC 120V to AS/NZS 3000:2000**

| Code       | Nearest SAE, (B&S) (AWG)       | Number of Strands x wire Ø mm | Nominal Area mm <sup>2</sup> | Industry Equivalent mm | AMP Rating at 30°C | Average Sheath Thickness mm | Average Insulation Thickness mm | OFHC                               | Nominal O.D. mm | Mass Kg/100mt |
|------------|--------------------------------|-------------------------------|------------------------------|------------------------|--------------------|-----------------------------|---------------------------------|------------------------------------|-----------------|---------------|
|            |                                |                               |                              |                        |                    |                             |                                 | Max D.C. Resistance at 20°C m Ω/mt |                 |               |
| ATS27032   | 20                             | 7/0.32                        | 0.56                         | 2.50                   | 10                 | 0.50                        | 0.40                            | 33.76                              | 2.75x4.50       | 2.32          |
| ATS29030   | 19                             | 9/0.30                        | 0.64                         | 2.50                   | 11                 | 0.50                        | 0.50                            | 29.90                              | 3.00x5.00       | 2.75          |
| ATS216030  | 16 <sup>1</sup> / <sub>2</sub> | 16/0.30                       | 1.13                         | 3.00                   | 16                 | 0.45                        | 0.50                            | 16.50                              | 3.40x6.80       | 4.09          |
| ATS226030  | 14 <sup>1</sup> / <sub>2</sub> | 26/0.30                       | 1.84                         | 4.00                   | 22                 | 0.55                        | 0.55                            | 10.15                              | 3.90x6.60       | 5.70          |
| ATS241030  | 12 <sup>1</sup> / <sub>2</sub> | 41/0.30                       | 2.9                          | 5.00                   | 29                 | 0.65                        | 0.60                            | 6.43                               | 4.60x8.00       | 8.40          |
| ATS265030  | 10 <sup>1</sup> / <sub>2</sub> | 65/0.30                       | 4.59                         | 6.00                   | 40                 | 0.75                        | 0.75                            | 4.06                               | 5.50x9.30       | 12.56         |
| ATS2112030 | 8                              | 112/0.30                      | 7.92                         | -                      | 74                 | 1.20                        | 0.80                            | 2.40                               | 8.00x13.40      | 14.08         |
| ATS2189030 | 6                              | 189/0.30                      | 13.36                        | -                      | 100                | 1.20                        | 1.00                            | 1.40                               | 9.40x16.20      | 37.50         |

**NOTE: NOT SUITABLE FOR CONNECTION TO MAINS POWER SUPPLY.**

AMP RATING ARE BASED ON JASO D609:2001 single core AMBIENT TEMPERATURE AT 30°C

OFHC ( oxygen free high conductivity copper ) is employed in audio and industrial electronic units.

Features:

**1. High electric and thermal conductivity**

Since OFHC contains oxygen and impurities in very small quantities only, it shows excellent electric conductivity and thermal conductivity ( Oxygen and impurities reduce the conductivity )

**2. Excellent hydrogen embrittlement resistance**

( TPC ) Tough pitch copper becomes very brittle

when it is heated at higher than 600°C under a reduction gas atmosphere including hydrogen gas.

Since OFHC contains a very low oxygen content only, it does not show any brittleness

**Please Note!**

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