| EWCAP-008 | Issued 2018-10-10 |
|---|---|
| METHOD TO IDENTIFIY TEMPERATURE CLASS OF WIRE HARNESS CONVOLUTE TUBING | |

## SCOPE

This specification describes a correlation between service temperature and a colored stripe for convolute tubing used in automotive wire harnesses. This specification does not include the test methods to determine the service temperature of the convolute nor does it specify the specification for size and location of the colored stripe. These items must be agreed to between customer and supplier separately from this document.

## TEMPERATURE CLASSIFICATIONS

Table 1 shows the correlation between service temperature and the identifying stripe color. The far-right column gives a callout that can be used to specify a tubing with the corresponding temperature rating. Figure 1 shows a typical convolute with a typical marking stripe.

TABLE 1: COMPONENT TEMPERATURE CLASSES

| Temperature Class | Temperature Range | Typical Application | Stripe Color | Call-out to Specify |
|---|---|---|---|---|
| T1 | -40° C to + 85° C | Cabin (lower than IP), trunk, doors | No stripe | EWCAP-008-T1 |
| T2 | -40° C to +100° C | IP top, headliner | Gray | EWCAP-008-T2 |
| T3 | -40° C to +125° C | Engine compartment | Green | EWCAP-008-T3 |
| T4 | -40° C to +150° C | Hotter on-engine applications | Yellow | EWCAP-008-T4 |
| T5 | -40° C to +175° C | Special high-temp applications | Violet | EWCAP-008-T5 |
| T6[1] | -40° C to +200° C | Special high-temp applications | Brown | EWCAP-008-T6 |

[1] T6 is not a temperature class in USCAR specifications. Other temperature classes align with USCAR-2.

FIGURE 1: TYPICAL CONVOLUTE TUBING WITH IDENTIFYING STRIPE