

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
Т3	-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