

Title (en)
ELECTRICAL-TERMINAL ASSEMBLY WITH THERMAL MONITORING

Title (de)
ELEKTRISCHE ANSCHLUSSANORDNUNG MIT THERMISCHER ÜBERWACHUNG

Title (fr)
ENSEMBLE TERMINAL ÉLECTRIQUE AVEC SURVEILLANCE THERMIQUE

Publication
EP 3644455 B1 20210721 (EN)

Application
EP 18202924 A 20181026

Priority
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Abstract (en)
[origin: EP3644455A1] A terminal-assembly (10) includes a wire-cable (12), an electrical-terminal (18), a housing (40), and a temperature-sensor (60). The wire-cable (12) has an insulation-layer and an exposed-end (16). The electrical-terminal (18) has a first-end (20) and a second-end (22). The first-end (20) is bonded with the exposed-end (16). The first-end (20) defines a terminal-head (26) terminating at a first-shoulder (30). The first-end (20) further defines a shaft (34) extending from the first-shoulder (30) and terminating at a second-shoulder (36). The housing (40) has a skirt (42) that defines a first-cavity (44) and a cap (46) that defines a second-cavity (48). The first-end (20) is disposed within the first-cavity (44). The first-cavity (44) is isolated from the second-cavity (48) by a partition (54). The skirt (42) extends from the partition (54) along the mating-axis (28) and defines a slot (56) configured to slideably engage the terminal-head (26). The skirt (42) has locking-features (58) configured to releasably lock around the electrical-terminal (18) when the terminal-head (26) is fully inserted into the slot (56). The temperature-sensor (60) is disposed within the second-cavity (48) and is configured to detect a temperature of the electrical-terminal (18).

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