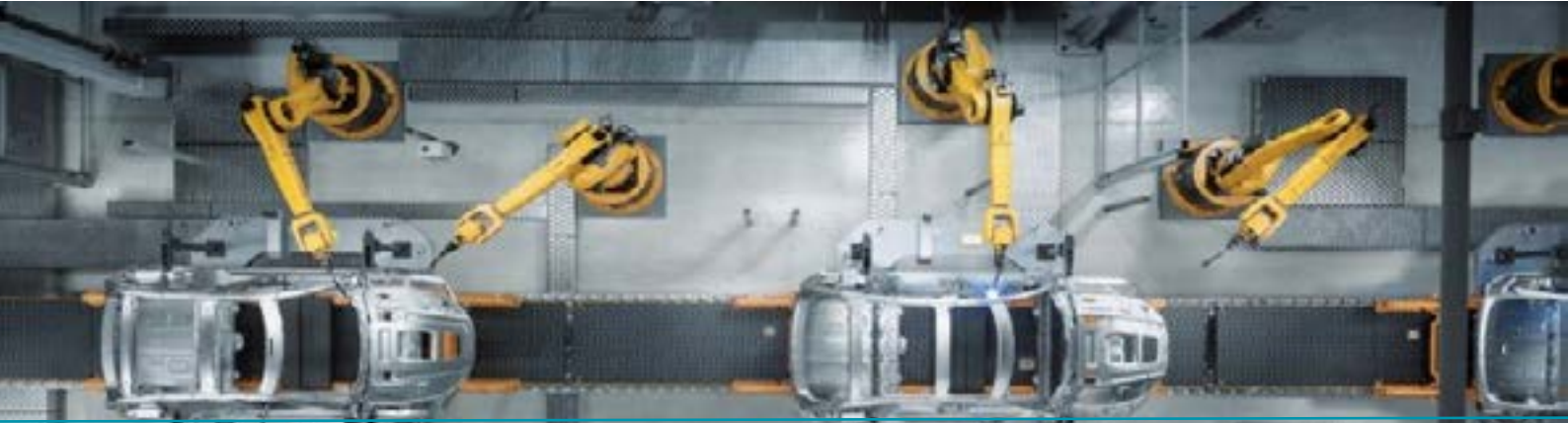


PMGCOMPANY

SPECIALISTS IN HEAT SHRINK TUBING AND CABLE HARNESSING PRODUCTS



AUTOMOTIVE APPLICATIONS PRESENTATION

AUTOMOTIVE TUBING & PROTECTION PRODUCTS

Sealing and protection for wire bundles, connector terminals and splices: HTAT & ATUM

Grommet and wire bundle sealing: Ray Block Family

Protection for wire bundles, terminals, dry splices, strain relief, single wall tubing: LSTT, CGPT, RNF, CRN, RW-175, RW-200

Hose and wire bundle abrasion protection: HFT-500 Family

Dry splice sealing, strain relief: RPPM

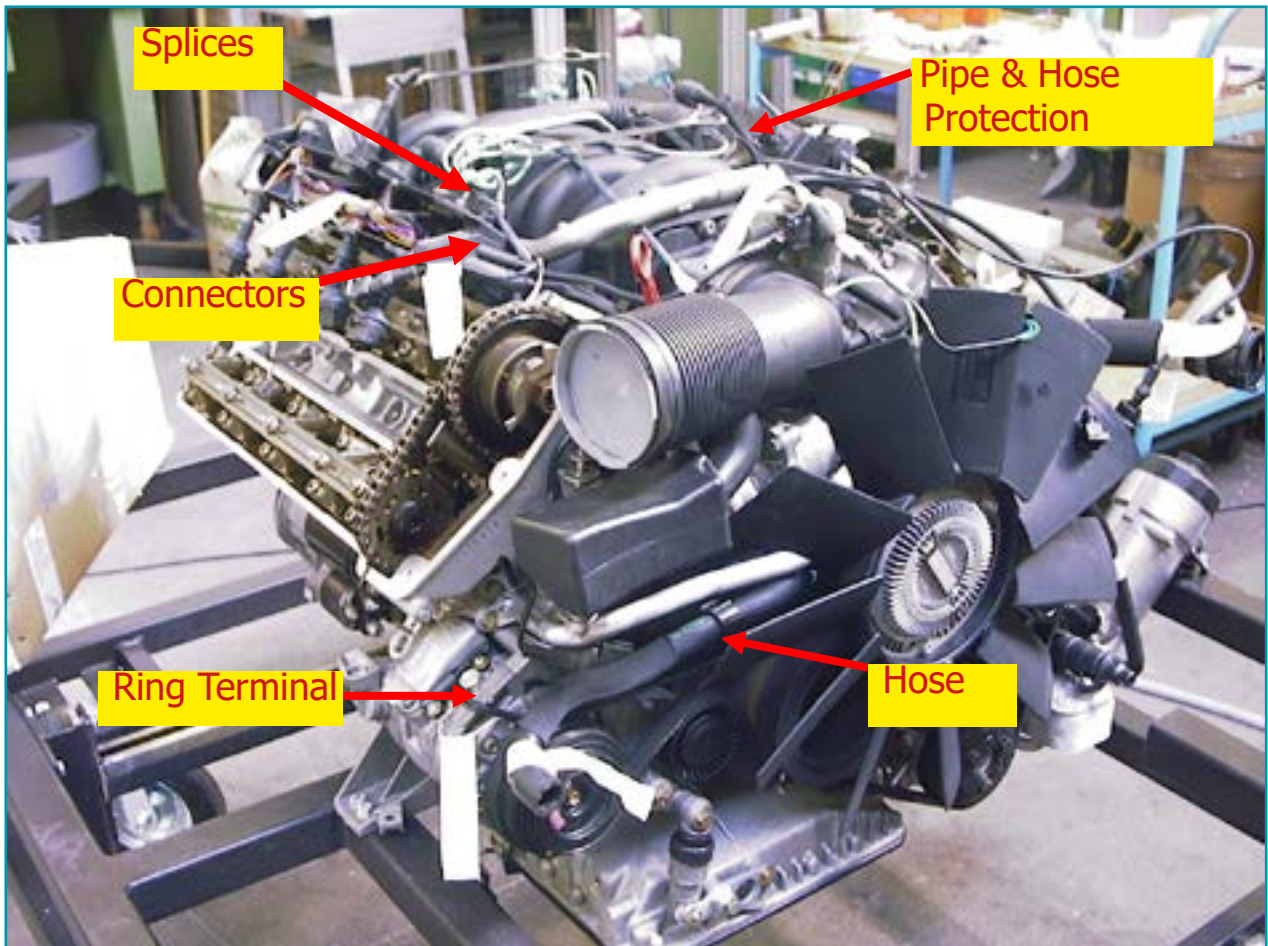
Ring terminal sealing: RBK-RTP-125

Stub splice sealing: ES Cap Family

Brake and air conditioning line protection: AP2000

Hose and pipe protection: DWTC

ENGINE BAY/HARSH ENVIROMENT APPLICATIONS



The **red arrows** show typical application areas where JDD/ PMG/ TE Connectivity type products are used.

AUTOMOTIVE PRODUCTS

MAIN APPLICATIONS



Single wall tubes for insulation



HFT-5000 for Hose protection



RPPM for dry splices and protection



QSZH/RBK-ILS/VWS-125 for Splice sealing & ring terminals



ES CAP for stub splice sealing



Rayblock for wire bundle blocking up to 20 wires

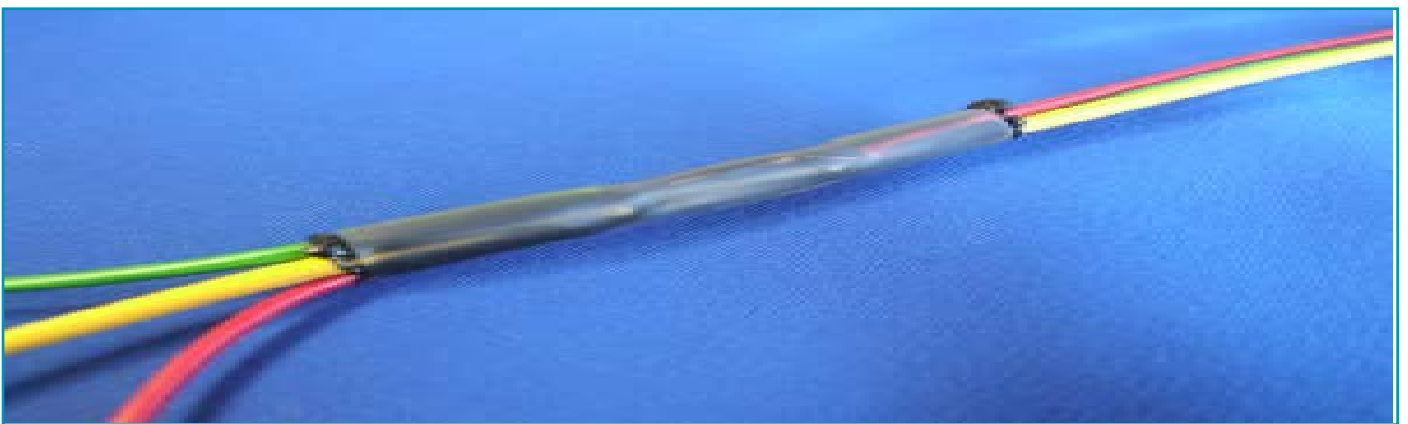


AP-2000 for brake pipe protection

SPLICE & RING TERMINAL SEALING

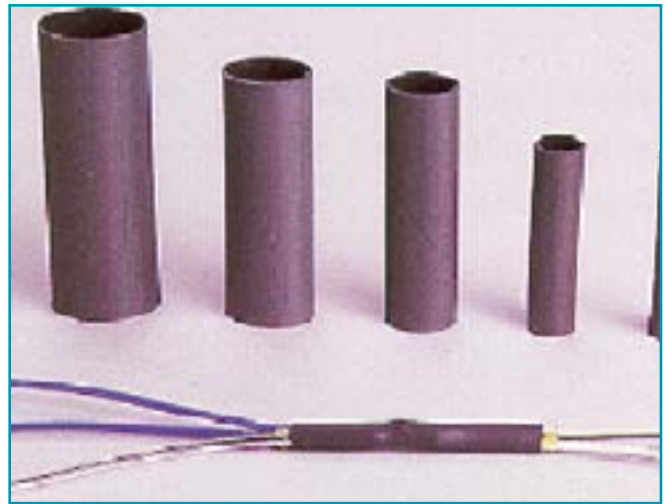
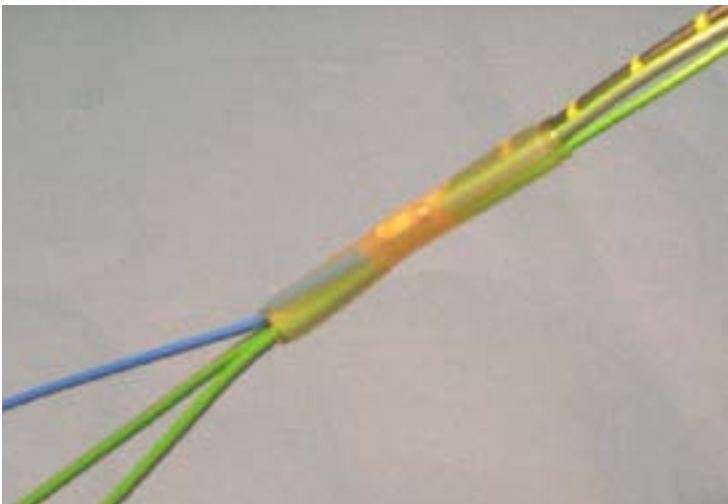
QSZH TUBING

- Five tubing sizes available.
- Rated 3000 hours @ 125°C.
- Zero halogen.
- Excellent sealing performance.
- Protecting splice against flex, abrasion and cut through.
- Smooth profile, easy routing into the wire harness.
- Cut lengths to suit in-line splices and ring terminals.



SPLICE & RING TERMINAL SEALING-RBK TUBING

- Five tubing sizes available.
- Rated 3000 hours @ 125°C.
- Available in black (RBK-ILS) and clear (RBK-VWS).
- Excellent sealing performance.
- Protecting splice against flex, abrasion and cut through.
- Cut lengths to suit in-line splices and ring terminals.
- Flame retarded.
- Small tube size available to seal miniature wire splices.



SPLICE & RING TERMINAL SEALING

SCT TUBING

- Five standard sizes available.
- Rated 3000 hours @ 150°C.
- Excellent sealing performance.
- Protecting splice against flex, abrasion and cut through.
- Cut lengths to suit automotive in-line splices and ring terminals.
- Flame retarded.



BUTT SPLICE SEALING

ESP-CAP

- Three cap sizes available.
- Rated 3000 hours @ 105°C.
- Rated 300 hours @ 125°C if over taping onto wires.
- Protecting splice against flex, abrasion, cut through.
- Strain relief.
- Highly resistant to automotive fluids and solvents.
- Available in clear and black.



CONNECTOR APPLICATIONS

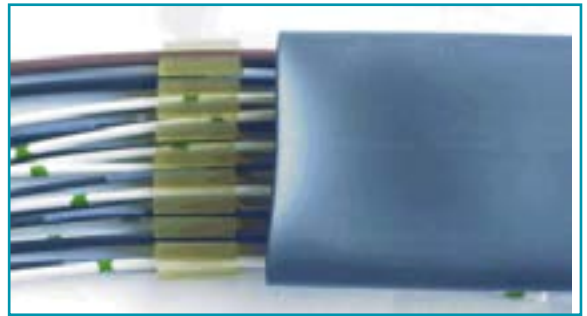
- **HTAT, ATUM, CGPT, LSTT < 150°C**
- Above heatshrink tubing families used for sealing and strain relief at the back of connectors.
- High shrink ratio available to fit over large connectors.
- Niche applications.
- **SCT tubing rated at 150°C**



WIRE BUNDLE SEALING APPLICATIONS

RAYBLOCK

- **RBK-85 (85 °C) and RBK-105 (105 °C)**
- Seals up to 20 wires.
- Provides strain relief and noise reduction.
- Low profile.
- Combines hot melt adhesive profiles with heat shrink tubing.
- Watertight seal.



HOSE PROTECTION APPLICATIONS

HFT-5000 (**H**eatshrink **F**abric **T**ubing)

- 2:1 heat shrink ratio.
- Abrasion and cut through resistant at elevated temperature.
- Highly flexible.
- Breathable, no fluid entrapment.
- Noise suppression.
- Power cable protection.
- Space and weight saving, improved flexibility over conduit.
- Stays in place on the hose.
- OEM/ hose manufacturer approval.
- Polyester longitudinal fibres.
- Excellent mechanical performance.
- Excellent environmental performance.















Crosslinked modified polyolefin
circumferential fibres- Heat
Shrinkable

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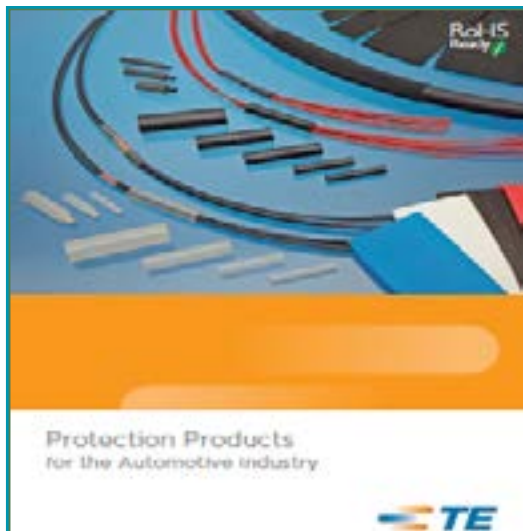
SPECIALISTS IN HEAT SHRINK TUBING AND CABLE HARNESSING PRODUCTS

OEM APPROVALS

OEM	Products approved
	ATUM, CGPT, DR-25, ES-CAP, HFT5000, HTAT, QSZH-125, RBK-85-KIT, RBK-105-KIT, RBK-ILS, RBK-VWS, RNF-100, RNF-3000, TUGA-GP
	ATUM, CGPT, DR-25, ES1000, ES2000, ES-CAP, HFT5000, HTAT, LSTT, QSZH-125, RBK-ILS, RBK-VWS, RNF-100, RNF-150, RNF-3000, RW-175
	ATUM, HTAT, QSZH-125, RBK-ILS, RNF-3000, SCT, TUGA-GP
	CGPT, FRAG, HTAT, RBK-ILS, RNF-100, RNF-3000, RW-200, SCT, VERSAFIT
	CGPT, CRN, QSZH-125, SCT
	ES-CAP, QSZH-125, RBK-ILS
	ES-CAP*, HTAT*, LSTT*, QSZH-125*, RBK-ILS*, RNF-3000*, RPPM*, SASR*
	CRN*, ES-CAP*, HTAT*, LSTT*, QSZH-125*, RBK-ILS*, RNF-100*, RNF-3000*, RPPM*, RW-200*, SASR*, SCT
	QSZH-125, SCT
	ATUM*, CGPT*, ES-CAP*, HTAT*, QSZH-125, RBK-ILS, RBK-VWS, RMW*, RNF-100*, RNF-3000*
	ATUM, HTAT, QSZH-125, RBK-ILS, RMW
	ATUM, CGPT, ES-CAP, HFT5000, HTAT, RBK-ILS

DOCUMENTATION

- **Product Installation Procedures:** QSZH (PIP-101), RBK (PIP-019), RBK-VWS (PIP-004), ES-CAP (PIP-021).
- **TE Specifications:** QSZH (RK-6771), RBK-ILS (RK-6638), RBK-VWS (RK-6640), ES-CAP (RW-3006), SCT (SCT SCD), RPPM (RK-6214), HTAT (RW-2052), RBK-RTP (RW-6764), Rayblock (RW-2102).
- **Protection Products Catalogue:** 1654296-3
- **Application Tooling For Heat Shrink Products:** Catalogue 2-1773462-8
- **Datasheets**
- **Whitepaper**
- **Tubing Customer Presentation**



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