



Product Change Notification

Current Date: 22-Dec-2019

TE Connectivity

Product Change Notification: P-19-018383

PCN Date: 20-DEC-19

Customer: TTI, Inc. (1305175)

Location: Maisach-gernlinden

Agreement: TTI001

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

General Product Description:

Micro A Relay. Second Source for PA6.6 used in base and coil body.

Description of Changes

Dear Customer, we inform you in advance that we have approved a second source supplier (Ascend) for the PA6.6 used in the relay coil body and base in order to protect and assure TE capability to meet our customer demand. Current PA6.6 supplier is not guarantying the volumes requested by TE for FY2020 and already announced Force Majeure during FY2018 & 2019 causing disturbances on TE supply chain. The alternative validated material is already used in TE Automotive relays and in Micro A is currently used on the cover [PCN numbers: P-18-016341; P-18-016344; P-18-016556; P-19-017440; P-19-017442]

Other attachments:

[Alternative PA6.6 supplier. MicroA](#)

Reason for Changes:

Product improvement.Second source.

Estimated Dates:

Last Order Date (Obsolete Parts Only):

First Date To Ship (Changed Parts Only):

23-MAR-2020

Last Ship Date (Obsolete Parts Only):

Last Date for Mixed Shipments: (Changed Parts Only):

No Mixed Shipments

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
3-1393292-8	NO		TYC3-1393292-8	"V23074A1002A403"			
4-1904124-2	NO						
4-1904124-3	NO						
6-1393292-2	NO			"V23074A2002A402"			
6-1393292-3	NO		TYC6-1393292-3	"V23074A2002A403"			
6-1419137-4	NO		TYC6-1419137-4	"V23074A2001A403"			
8-1393292-9	NO			"V23074A1002A402"			



Product Change Notification

Current Date: 22-Dec-2019

TE Connectivity

Product Change Notification: P-19-018383

PCN Date: 20-DEC-19

Customer: TTI, Inc. (3057778)

Location: Maisach-gernlinden

Agreement: Agreement Unknown

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

General Product Description:

Micro A Relay. Second Source for PA6.6 used in base and coil body.

Description of Changes

Dear Customer, we inform you in advance that we have approved a second source supplier (Ascend) for the PA6.6 used in the relay coil body and base in order to protect and assure TE capability to meet our customer demand. Current PA6.6 supplier is not guarantying the volumes requested by TE for FY2020 and already announced Force Majeure during FY2018 & 2019 causing disturbances on TE supply chain. The alternative validated material is already used in TE Automotive relays and in Micro A is currently used on the cover [PCN numbers: P-18-016341; P-18-016344; P-18-016556; P-19-017440; P-19-017442]

Other attachments:

[Alternative PA6.6 supplier. MicroA](#)

Reason for Changes:

Product improvement.Second source.

Estimated Dates:

Last Order Date (Obsolete Parts Only):

First Date To Ship (Changed Parts Only):

23-MAR-2020

Last Ship Date (Obsolete Parts Only):

Last Date for Mixed Shipments: (Changed Parts Only):

No Mixed Shipments

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
4-1904124-3	NO						
6-1393292-2	NO			"V23074A2002A402"			
6-1393292-3	NO		TYC6-1393292-3	"V23074A2002A403"			
6-1419137-4	NO		TYC6-1419137-4	"V23074A2001A403"			
8-1393292-9	NO			"V23074A1002A402"			



PA6.6 alternative supplier for Micro A base and coil body material

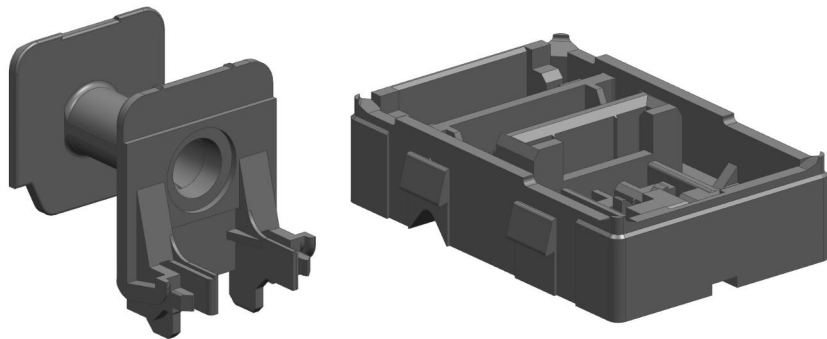


EVERY CONNECTION COUNTS



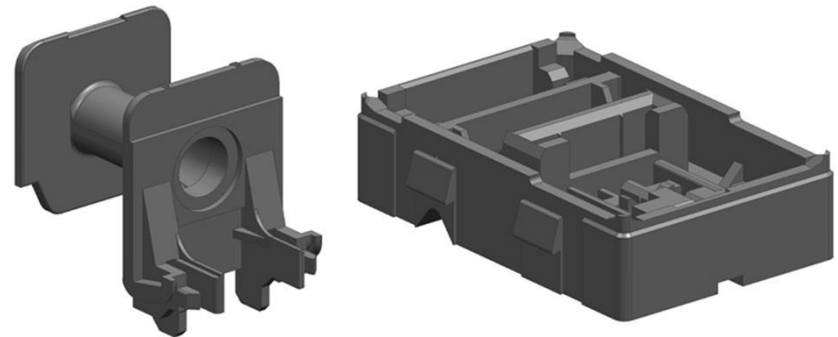
PA6.6 alternative supplier for Micro A base and coil body material

Current part



Material: PA6.6 25% GF
Supplier: BASF
Supplier grade: Ultramid A3HG5 & A3EG5

Alternative part



Material: PA6.6 25% GF
Supplier: Ascend
Supplier grade: Vydyne R525J

No changes in color, dimensions or other physical properties when using the alternative supplier material.

PA6.6 alternative supplier for Micro A base and coil body material

Reason:

Current PA6.6 supplier is not guarantying the volumes requested by TE for FY2019 and already announced Force Majore during FY2018 causing disturbances on TE supply chain.

To protect and assure TE capability to meet our customer demand, we have approved a second source supplier of PA6.6 that can be used as alternative.

Product Validation:

Product Validation tests	Passed
Free fall	Passed
Vibration	Passed
Mechanical shock	Passed
Damp heat cycle	Passed
Damp heat steady state	Passed
High temperature endurance test	Passed
Fuse	Passed
Temperature cycle endurance test	Passed
Resistance to automotive liquids	Passed
Cover retention pull	Passed
Electrical lifetime test at minimum load	Passed
Electrical lifetime test at maximum load	Passed
LASER Marking	Passed



PA6.6 alternative supplier for Micro A base and coil body material

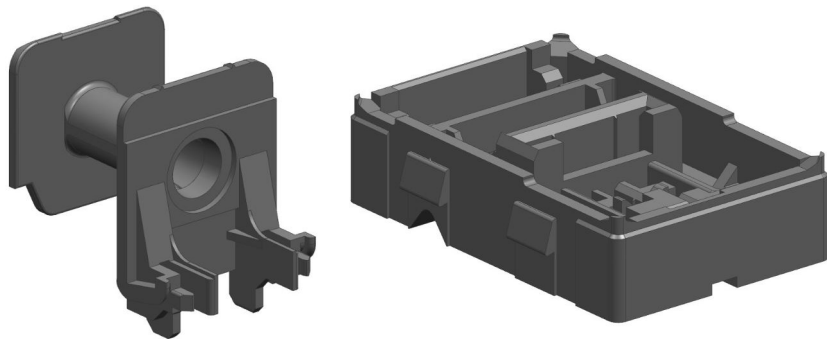


EVERY CONNECTION COUNTS



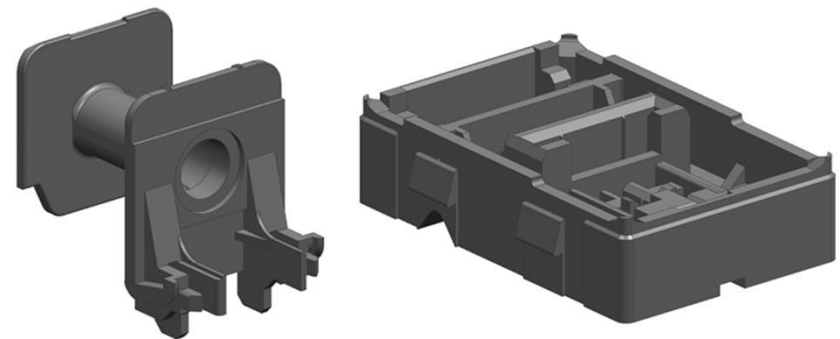
PA6.6 alternative supplier for Micro A base and coil body material

Current part



Material: PA6.6 25% GF
Supplier: BASF
Supplier grade: Ultramid A3HG5 & A3EG5

Alternative part



Material: PA6.6 25% GF
Supplier: Ascend
Supplier grade: Vydyne R525J

No changes in color, dimensions or other physical properties when using the alternative supplier material.

PA6.6 alternative supplier for Micro A base and coil body material

Reason:

Current PA6.6 supplier is not guarantying the volumes requested by TE for FY2019 and already announced Force Majore during FY2018 causing disturbances on TE supply chain.

To protect and assure TE capability to meet our customer demand, we have approved a second source supplier of PA6.6 that can be used as alternative.

Product Validation:

Product Validation tests	Passed
Free fall	Passed
Vibration	Passed
Mechanical shock	Passed
Damp heat cycle	Passed
Damp heat steady state	Passed
High temperature endurance test	Passed
Fuse	Passed
Temperature cycle endurance test	Passed
Resistance to automotive liquids	Passed
Cover retention pull	Passed
Electrical lifetime test at minimum load	Passed
Electrical lifetime test at maximum load	Passed
LASER Marking	Passed