



**The IP&E
Specialist**

Value Added Services

TTI, Inc., – A Berkshire Hathaway Company



The IP&E Specialist

The Specialist in Electronics Component Distribution

Founded in 1971, TTI has steadily grown to become a world leading specialist distributor of electronic components. The company was founded on the premise that passive component purchasing could be made more efficient by offering product specialization, customer-driven service and proprietary supply chain solutions.

Why TTI?

- **Technical Experts** TTI's European team of field-based Sales Engineers and local Product and Technical Specialists are here to support you; from understanding component trends, sustainable sourceability and new product roadmaps, to in depth technical support for your design from our technical engineering experts.

- **Value Added Services** Connector assembly is one of the most important value-added services at TTI, Inc. – Europe. We are specialized in distributing manufacturer controlled and certified connectors and interconnect solutions from globally leading suppliers. Thanks to a large inventory level of connector components, TTI, Inc. – Europe can serve any market requirements.

- **Global Distribution Centers** Our European headquarters is located just outside of Munich, Germany in Maisach-Gernlinden. In total, we have 45.000m² of dedicated warehouse space and local sales and technical support in over 40 locations across Europe. TTI has more than 195.000m² of automated warehousing in North America, Europe and Asia. All are linked into a global warehouse management system that provides superior customer service and overall business efficiencies. Wherever you are in the world, TTI can support you. Year after year, customers rate our inventory availability, on-time delivery and accuracy among the very best in the industry – contact us today to find out what a true specialist has to offer.

- **Quality and Reliability** TTI's global warehouses are all ISO-registered and have received certification to the ISO 9001 and ISO 14001 Standards. TTI Europe is also certified to EN9120/EN9100, IECQ-CECC and ISO/IEC 27001 Standards. Additionally, our European sales branches are ISO 9001 certified. TTI has one global documentation system that ensures that every TTI branch and warehouse in the world follows the same processes.





80+
Suppliers



45.000 m²
Warehousing Space



One of the largest Autostore systems in Europe



40
Sales Locations

24/7
Available to Order Online



www.ttieurope.com

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We are a specialist distributor that provides you with supply chain solutions: from the start of your design to prototyping up to serial production; for small up to large quantities.

TTI Europe's connector assembly lines are officially authorized by our suppliers. With the capacity of building more than over hundred thousand different variants of connectors and an outstanding stock level of components, we can ensure short lead times with a 24-hour turnaround, orders without any MOQ, ship to your forecast requirements or simply hold buffer/safety stock to meet your procurement needs.

We assemble the following product series:

Amphenol	ITT cannon veam	Souriau-Sunbank by E-T-N
<ul style="list-style-type: none"> - MIL-DTL-38999 Series I - LJT - HE308 - RNJ - MIL-DTL-38999 Series III - VG95319-1016 - VG95319-1011 - TV - VG95234 - VG95328 - PT - 451 - HE301 - VG96912 - SJT - 97-Series (AS50151) 	<ul style="list-style-type: none"> - VG95234 - CA-Bayonet - CA-COM - CA - CGL - FRCIR - CIR - VG95328 - KPSE - KPT - KPTC and dust caps for series CA-B, CA-COM - KPxx - MKJ - plus customer specials (CS) 	<ul style="list-style-type: none"> - MIL-DTL-38999 Series I - 8LT, - HE308 - MIL-DTL-38999 Series III - VG95319-1016 - EN3645 - 8D - VGE1 - VG96912 - 8ST - VG95328 - 851

To support your requirements, we offer:

- None RoHs/REACH compliant plating: Olive drab cadmium
- RoHs/REACH compliant platings: tin zinc (J), zinc nickel blue; electroless nickel; zinc cobalt black or green, black zinc nickel plating, epoxyurethanic vanish, stainless steel and marine bronze
- Signal (crimp & solder), power, coaxial and PCB (including stand-off) contacts
- Adapters and boots
- Backshells and accessories
- Tools
- Cable management components

Other services include:

- Barcode labeling
- Documentation and traceability
- ESD packaging
- International shipping and documentation
- Technical Support

Assembly Flowchart

Component Picking



Designation Stamping



Gasket Assembly



Insert Assembly



Compounding



Dust Cap Assembly

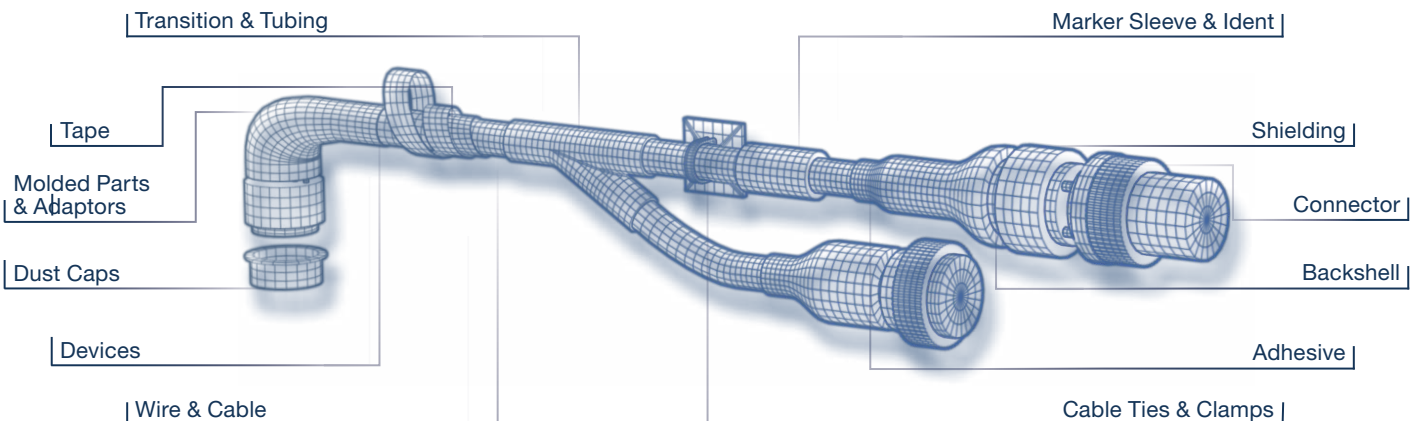


Supplier List

3M
 Amphenol
 APTIV
 DCS
 Glenair
 Hellermann Tyton
 ITT Cannon Veam
 Molex
 Nexans
 Panduit
 Radiall
 Rosenberger
 Smiths Interconnect
 Hypertac
 Souriau-Subank by Eaton
 TE Connectivity



Associated Products



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Commercial Series Circular Connectors		■	■		■							■	
Commercial Series Rectangular Connectors			■										■
Pin Header, Cutting	■	■	■				■						■
Contact Cutting, Terminals & Contacts		■	■		■	■						■	■
Associated products	3M	Amphenol	Aptiv	Glenair	HellermannTyton	ITT Cannon	Molex	Panduit	Smiths Interconnect	Souriau Sunbank	TE Connectivity		
Cable Management – Ties, Splices & Terminators	■	■		■	■			■				■	
Backshells & Adapters		■	■	■		■	■		■	■	■		
Heat Shrink Moulded Parts				■	■		■	■					■
Solderless Terminals – insulated/non-insulated			■				■	■					■
Labels, Cable Markers & Printers	■	■			■			■					■
Protective Caps		■	■	■		■	■		■	■	■		■
Tools	■	■	■	■	■	■	■	■	■	■	■		■
Associated products with MIL qualification	3M	Amphenol	Glenair	HellermannTyton	ITT Cannon	Molex	Panduit	Smiths Interconnect	Souriau Sunbank	TE Connectivity			
Cable Management – Ties, Splices & Terminators		■	■	■			■					■	
Backshells & Adapters		■	■		■					■		■	
Heat Shrink Moulded Parts			■	■								■	
Solderless Terminals – insulated/non-insulated							■					■	
Labels, Cable Markers & Printers				■								■	
Protective Caps		■	■		■					■		■	

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Heat Shrink Tube Cutting

Heat shrink tubing – TTI offers a cutting service.

Minimum cut length = 10mm
Maximum cut width = 150mm

These cost effective solutions can remove many customer challenges:

- Different lengths within one batch cut
- Potential splitting of the cut edge
- Cuts uneven or not 90°
- Build up of scrap material & redundant inventory
- Quality control



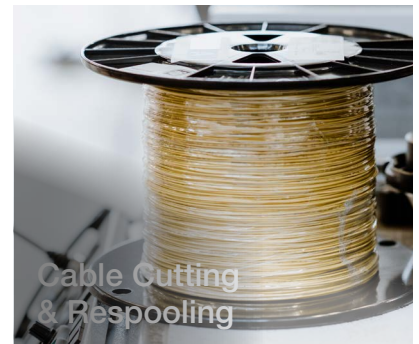
Cable Cutting & Respooling

Cable & Wire – “A cut above the rest”. TTI offers cutting and respooling services for ranges of cable and wire, all of which can be tailored to your specific requirements.

Minimum cut length = 1m
Maximum cut diameter = 40mm

These cost-effective solutions save you:

- Continuous lengths, can cause significant redundant inventory and increase storage requirements
- Reel sizes, physical size and weight can cause storage and handling issues
- Wire diameter, hand or manual cutting has limitations
- Export control restriction
- Quality control

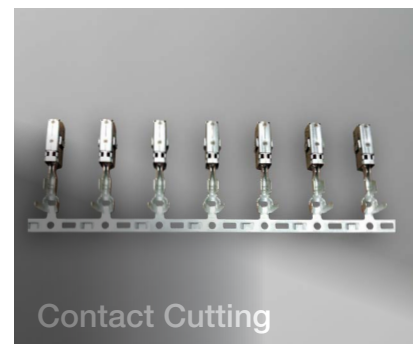
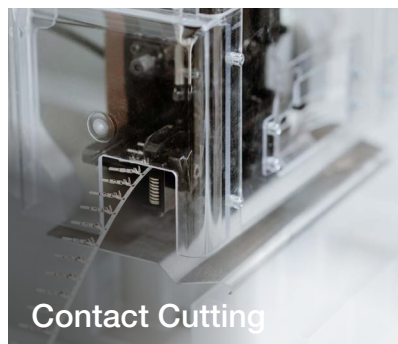


Contact Cutting

Screw terminal & Crimp contact
De-spooling service.

This cost-effective solution allows the customer:

- Processing time improvement
- Ship to line capability
- Reduced inventory, fulfillment on demand



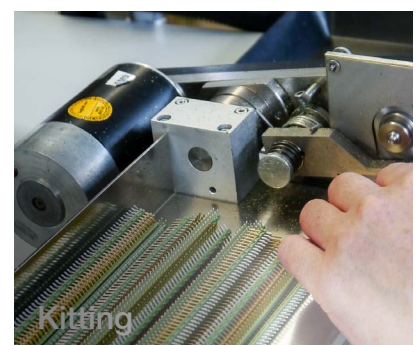
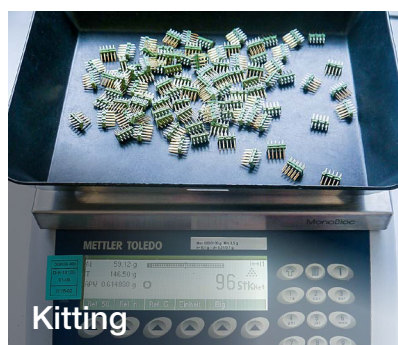
Kitting

TTI offers customer-specific and cost-optimizing kitting options on-site to help you reduce:

- Time taken in processing parts
- Downtime for assembly line due to parts availability
- Excess inventory

TTI offers you services to modify Pin, Breakaway Headers and Flex Strips exactly for your application's requirements.

This includes cutting of pin headers to custom pin counts and removal of individual pins based on your design requirements.




Connector Assembly Capability Chart



MIL QPL	Amphenol	Amphenol Matrix	Amphenol PCD	Glenair	ITT Cannon	ITT VEAM	Souriau-Subbank by Eaton	TE Connectivity	TE Deutsch
MIL-DTL-12883			■						
MIL-DTL 24308									
Solder/1 & 3					■				
Crimp/2 & 4			■		■			■	
PC Tail/23 & 24					■				
MIL-DTL-26482									
Series I Solder – MS311	■				■		■		
Series I Crimp – MS312	■				■				
Series II – MS347		■							■
MIL-DTL-26500									
	■								
MIL-DTL-28840									
				■					
MIL-DTL-29504									
				■					
MIL-DTL-38999									
Series I – MS27 odd shell sizes	■						■		■
Series II – MS27 even shell sizes	■						■		
Series III Aluminum F & W	■						■		■
Series III Composite J & M	■						■		■
Series III Firewall K & S	■						■		
Series III Black Zinc Ni Z	■						■		■
Hermetics – Series I II III	■			■					■
MIL-DTL-39012									
	■							■	
MIL-DTL-55302									
	■							■	
MIL-DTL-55339									
	■							■	
MIL-DTL-83513									
	■			■	■			■	
MIL-DTL-83723									
Series III Bayonet – M83723/7		■							■
Series III Threaded – M83723/8		■							
Series III Threaded – M83723/9		■							

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Commercial Versions	Amphenol	Amphenol Matrix	Amphenol PCD	Glenair	ITT Canon	ITT VEAM	Souriau-Subank by Eaton	TE Deutsch
Commercial alternative for MIL DTL 12883			RS					
Commercial alternative for MIL DTL 24308								
Solder/1 & 3			M2000		D			
Crimp/2 & 4					MM/MAM			
Commercial alternative for MIL DTL 26482								
Series I Solder – MS311	PT/PT0				KPT0		851-0	
Series I Crimp – MS312	PTO/SE0				KPSE0		851-0/R	
		MB1					8526	AFD5
Commercial alternative for MIL DTL 26500								
	ZZW/ZZY							
Commercial alternative for MIL DTL 28840								
				GS28840				
Commercial alternative for MIL DTL 38999								
Series I	LJT/LJT0/ HE308/RNJ						8LT/HE308	DJT1
Series II	JT0/JTG						8T	
Series III Aluminum F & W	TV/TVS/TVP0/ TVPS0						8D	DTS2
Series III Composite J & M	TV/TVS/VP0/ TVPS0						8D	ACT9
Series III Firewall K & S	TV/TVS/TVP0/ TVPS0						8D	
Commercial alternative for MIL C 5015								
					CA-COM CA			
Commercial alternative for MIL DTL 83513								
	100			MW	MDM			
Commercial alternative for MIL DTL 83723								
Series III Bayonet		MB3						
Series III Threaded		MT3						
AS50151								
Solder – MS310	MS310/SG310					MS310/ CA310		
Crimp – MS345								
AS81511								A81
AS81714								
			M81714/?					M81714/ CTD
			SJ					CTJ CTL CTM
EN2997								
	BTK-1						8533	983
EN3645								
							EN3645 8D	
EN4165								
								DMC-M
VG95319-1016 & VG95319-1011								
	VG95319-1016 VG95319-1011						VG95319-1016	
VG96912								
	VG96912 SJT						VG96912 8ST	
VG95328								
	VG95328 PT				VG95328 KPSE KPT KPTC		VG95328 851	
Solder Crimp								
VG95234								
	VG95234				VG95234 CA CA-COM-B	FRCIR CIR		
BOEING 787 BACC								
	BACC63CT						BACC63CT	
	BACC63CU						BACC63CU	
	BACC63DB						BACC63DB	
							BACC63DC	




Description & Product		Features & Benefits
97		
	<p>Metal cylindrical connector, Thread style</p>	<ul style="list-style-type: none"> • Based on SAE AS50151 • Hard dielectric inserts • Solder or crimp termination • 128 different contact arrangements • Plating in Zink Nickel blue and VG approved Tin Zinc J plating (RoHS compliant)

Amphenol Air LB




Amphenol-Air LB

Description & Product		Features & Benefits
VG95234		
	<p>Metal cylindrical connector, Reverse Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Up to 500h saltspray resistance • High contact density • Sealing IP67 / IP68 • VG approved Tin Zinc J plating (RoHS compliant)
VG96912		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • -65°C + 175°C • 100% scoop-proof • Between 2 and 128 contacts • Crimp contacts AWG28 - AWG22 • RoHS compliant (Tin-Zinc)
VG95328		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Five-way polarization for precise alignment • Up to 500h saltspray resistance • High contact density • Sealing up to IP67 and IP68 • 2 to 61 contacts • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
VG95319-1016		
	<p>Metal cylindrical connector, tri-Star thread</p>	<ul style="list-style-type: none"> • -65 C° to + 200 C° • 54 qualified layouts • 360° shielding • 500 mating/unmating cycles • Sealing up to IP67 • VG approved Tin Zinc J plating (RoHS compliant)
VG95319-1011		
	<p>Back Shells</p>	<ul style="list-style-type: none"> • Backshell as per VG95319 as adapter with strain reliever shells for D38999 series III • Temperature range corresponds to the respective plug series

Description & Product		Features & Benefits
MIL-DTL-D38999 Series I		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • -55°C + 200 C° • 100% scoop-proof • High contact density up to 128 contacts #22D • 360° shielding • 500 mating/unmating cycles • Sealing up to IP67 • Various plating options (RoHS compliant)
LJT		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • -55°C + 200C° • 9 shell sizes from 09 to 25 • 100% scoop-proof • 60 contacts arrangements • 500 mating/unmating cycles • Various plating options (RoHS compliant)
RNJ		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • -65°C + 175C° • 8 shell sizes from 11 to 25 • 100% scoop-proof • Between 1 and 128 contacts • 500 mating/unmating cycles • Various plating options (RoHS compliant)
MIL-DTL-D38999 Series III		
	<p>Metal cylindrical connector, Tri-Star thread</p>	<ul style="list-style-type: none"> • -55°C + 200C° • 9 shell sizes from 09 to 25 • 100% scoop-proof • 80 contacts arrangements • 500 mating/unmating cycles • Various plating options (RoHS compliant)
TV		
	<p>Metal cylindrical connector, Tri-Star thread</p>	<ul style="list-style-type: none"> • -55°C + 200C° • 9 shell sizes from 09 to 25 • 100% scoop-proof • 80 contacts arrangements • 500 mating/unmating cycles • Various plating options (RoHS compliant)
SJT		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • -65°C + 200C° • High contact density 1 up to 128 contacts • 100% scoop-proof • 60 contacts arrangements • 500 mating/unmating cycles • Various plating options (RoHS compliant)



Description & Product		Features & Benefits
451		
	Metal cylindrical connector, Bayonet style	<ul style="list-style-type: none"> - 55 C° to + 125 C° In accordance with MIL-DTL-26482 36 different contact arrangements Contacts sizes 20 and 16 Crimp, wire soldering, PCB and wire wrap contacts Various plating options (RoHS compliant)
HE308		
	Metal cylindrical connector, Bayonet style	<ul style="list-style-type: none"> -55°C + 200C° 9 shell sizes from 09 to 25 100% scoop-proof 60 contacts arrangements 500 mating/unmating cycles Various plating options (RoHS compliant)
PT		
	Metal cylindrical connector, Bayonet style	<ul style="list-style-type: none"> - 55 C° to + 125 C° In accordance with MIL-DTL-26482 36 different contact arrangements Contacts sizes 20 and 16 Crimp, wire soldering, PCB and wire wrap contacts Various plating options (RoHS compliant)

EATON (Souriau)

Description & Product		Features & Benefits
MIL-DTL-D38999 Series I		
	Metal cylindrical connector, Bayonet style	<ul style="list-style-type: none"> -55°C + 200C° 9 shell sizes from 09 to 25 100% scoop-proof 60 contacts arrangements 500 mating/unmating cycles Various plating options (RoHS compliant)
HE308		
	Metal cylindrical connector, Bayonet style	<ul style="list-style-type: none"> -55°C + 200C° 9 shell sizes from 09 to 25 100% scoop-proof 60 contacts arrangements 500 mating/unmating cycles Various plating options (RoHS compliant)
8D		
	Metal cylindrical connector, Tri-Star thread	<ul style="list-style-type: none"> Up to + 200 C° 54 qualified layouts 360° shielding 500 mating/unmating cycles Sealing up to IP67 Various plating options (RoHS compliant)



Description & Product		Features & Benefits
8LT		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • -55°C + 200°C • 9 shell sizes from 09 to 25 • 100% scoop-proof • 80 contacts arrangements • 500 mating/unmating cycles • Various plating options (RoHS compliant)
MIL-DTL-D38999 Series III		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • Up to + 200 C° • High contact density up to 128 contacts #22D • 54 qualified layouts • 360° shielding • 500 mating/unmating cycles • Sealing up to IP67 • Various plating options (RoHS compliant)
EN3645		
	<p>Metal cylindrical connector, Tri-Star thread</p>	<ul style="list-style-type: none"> • -65°C + 200 C° • Shell size from 9 to 25 • 100% Scoop proof • 500 mating/unmating cycles • Sealing up to IP67 • Various plating options (RoHS compliant)
VG95319-1016		
	<p>Metal cylindrical connector, Tri-Star thread</p>	<ul style="list-style-type: none"> • Up to + 200 C° • 54 qualified layouts • 360° shielding • 500 mating/unmating cycles • Sealing up to IP67 • VG approved Tin Zinc J plating (RoHS compliant)
VG95328		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Five-way polarization for precise alignment • Up to 500h saltspray resistance • High contact density • Sealing up to IP67 • 2 to 61 contacts • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
851		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Five-way polarization for precise alignment • Up to 500h saltspray resistance • 2 to 61 contacts • Sealing up to IP67 • 38 different contact arrangements • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)

Description & Product		Features & Benefits
VG96912		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> -65°C + 175°C 100% scoop-proof 360° shielding Between 2 and 128 contacts RoHS compliant (Tin-Zinc)
8ST		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> - 65 C° to + 200 C° Up to 500h saltspray resistance scoop proof and high contact density Sealing up to IP67 2 to 128 contacts Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
VGE1		
	<p>Metal cylindrical connector, Reverse Bayonet style</p>	<ul style="list-style-type: none"> - 40° C to + 100° C Sealing IP67 Fire & smoke certified (HL3/R22 - HL3/23) according to EN4554-2 500 mating/unmating cycles RoHS compliant

Description & Product		Features & Benefits
VG95328		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> - 55 C° to + 125 C° Five-way polarization for precise alignment Up to 500h saltspray resistance High contact density, crimp contacts Sealing up to IP67 and IP68 2 to 61 contacts Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
KPSE		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> - 55 C° to + 125 C° Five-way polarization for precise alignment Up to 500h saltspray resistance High contact density, crimp contacts Sealing up to IP67 and IP68 2 to 61 contacts Various plating options including VG approved Tin Zinc J plating (RoHS compliant)

Description & Product		Features & Benefits
KPT		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • Intermateability with all product lines designed to MIL-DTL-26428 Series I • - 55 C° to + 125 C° • Sealing IP67 / IP68 • Solder contacts, with glue • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
KPTC		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • Intermateability with all product lines designed to MIL-DTL-26428 Series I • - 55 C° to + 125 C° • Sealing IP67 / IP68 • solder contacts • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
VG95234		
	<p>Metal cylindrical connector, Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Up to 500h saltspray resistance • High contact density • Sealing IP67 / IP68 / IP69 k • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
CA-Bayonet		
	<p>Metal cylindrical connector, Thread / Reverse Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Based on MIL 5015 / VG95234 • Up to 500h saltspray resistance • Sealing IP67 / IP68 / IP69 k • 61 different contact arrangements • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
CA-COM		
	<p>Metal cylindrical connector, Thread / Reverse Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Based on SAE AS50151 / VG95234 • Up to 48h saltspray resistance • High contact density • Sealing IP67 • Nickel plated (RoHS compliant)
CA		
	<p>Metal cylindrical connector, Thread / Reverse Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° (FKM + 200 C°) • Based on SAE AS50151 • 142 different contact arrangements • Plating in Zink Nickel blue and VG approved Tin Zinc J plating (RoHS compliant)

Description & Product		Features & Benefits
CGL		
	<p>Metal cylindrical connector, Thread / Reverse Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Grounded circular conector • Available for 230 / 400 and 700 V • Threaded coupling: IP65 / Bajonet Sealing IP68 / IP69k • Plating in Nickel and Zink Nickel blue (RoHS compliant)
Dust Caps		
	<p>Metal Dust Cap for CA-B and KPxx</p>	<ul style="list-style-type: none"> • Based on VG95234/CA-B/CA-COM/VG95328/KP.. • Chain length or cord length freely selectable • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
MKJ1		
	<p>Threaded Coupling, Double Start Thread</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Operating Voltage: 200-600 V AC • Enhanced EMI • Up to 500h saltspray resistance • High-density size 23 machined crimp / PCB contacts • Various plating options
MKJ4		
	<p>Breakaway</p>	<ul style="list-style-type: none"> • - 65 C° to + 175 C° • Prevent miss-mating with 4 clocking position • Up to 500h / 1.000h saltspray resistance • 2.000 Mating cycels • Various plating options

Description & Product		Features & Benefits
FRCIR		
	<p>Metal cylindrical connector, Reverse Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Based on MIL 5015 / VG95234 • Fire retardant insulator • 2.000 Mating cycels min. • Up to 500h saltspray resistance • Sealing IP67 / IP68 • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)
CIR		
	<p>Metal cylindrical connector, Reverse Bayonet style</p>	<ul style="list-style-type: none"> • - 55 C° to + 125 C° • Based on MIL 5015 / VG95234 • 2.000 Mating cycels min. • Up to 500h saltspray resistance • Sealing IP67 / IP68 • Various plating options including VG approved Tin Zinc J plating (RoHS compliant)

Description & Product		Features & Benefits
Customer Specials		
		<ul style="list-style-type: none"> • Customer specific solutions, applications, cable assemblies • Advice from the planning to production • We take care of the complete procurement • Smallest quantities up to high volumes



The IP&E Specialist

ezBuy

*Buy now,
Pay with agreed terms*

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Search by TTI Manufacturer part number or your contracted internal part numbers.

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Quickly access your contract or VIP pricing.

No Credit Cards Needed

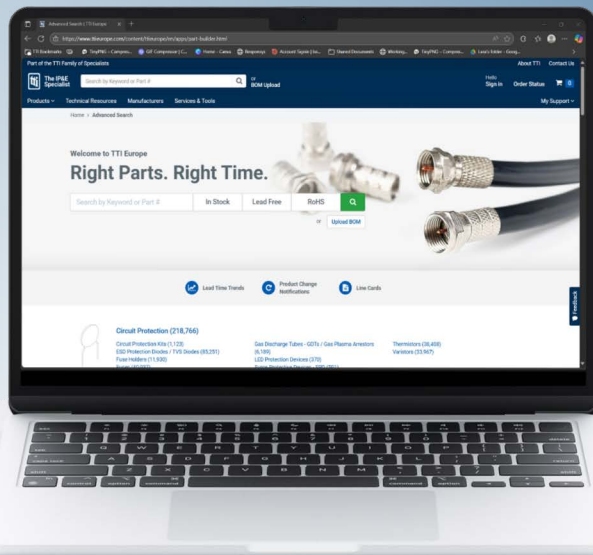
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what a true specialist can offer.

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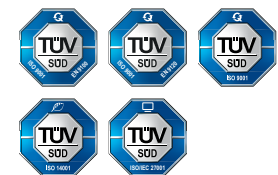
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