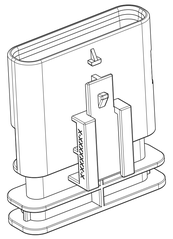
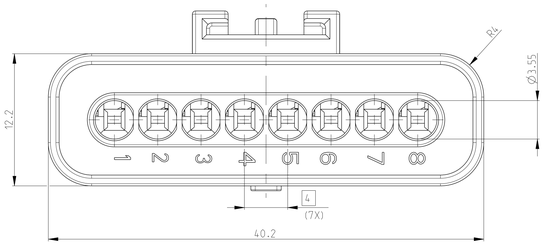
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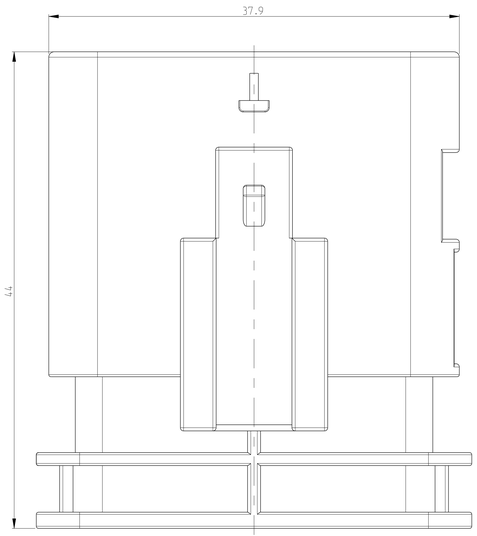
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			A	NEW DRAWING	08OCT2012	-	-

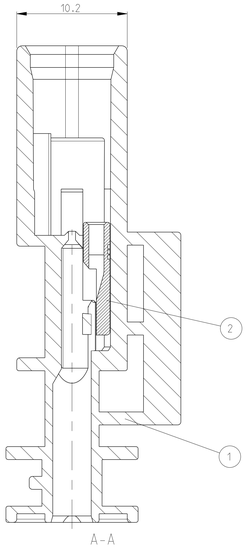
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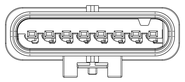
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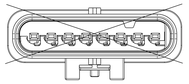




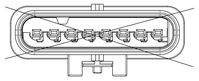
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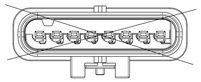
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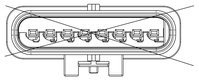
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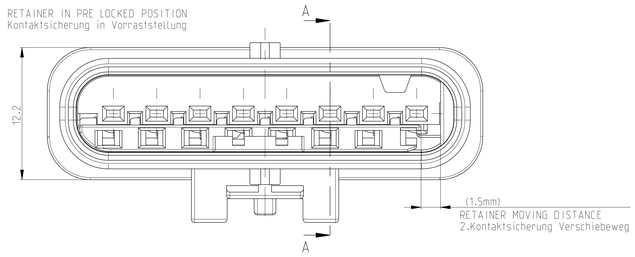


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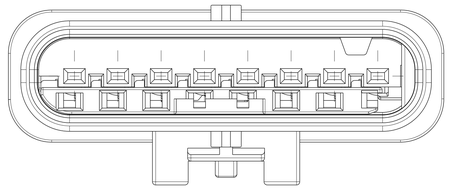
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RETAINER IN PRE LOCKED POSITION
Kontaktsicherung in Vorraststellung



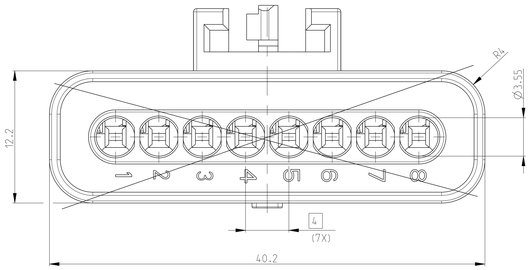
勝特力電材超市-龍山店 886-3-5773766
勝特力電材超市-光復店 886-3-5729570
胜特力电子(上海) 86-21-34970069
胜特力电子(深圳) 86-755-83298787
http://www.100y.com.tw

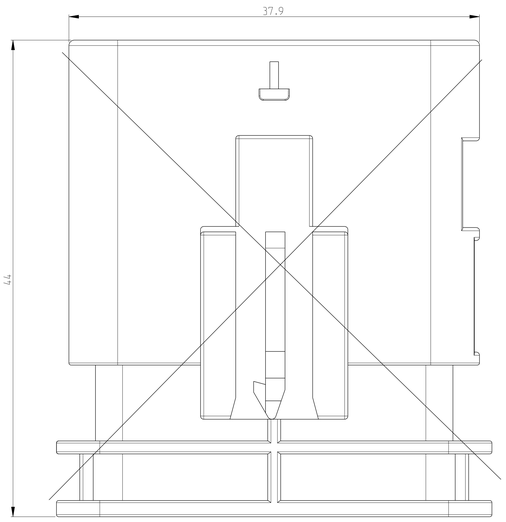
RETAINER IN FINAL LOCKED POSITION
2. Kontaktsicherung in Endraststellung

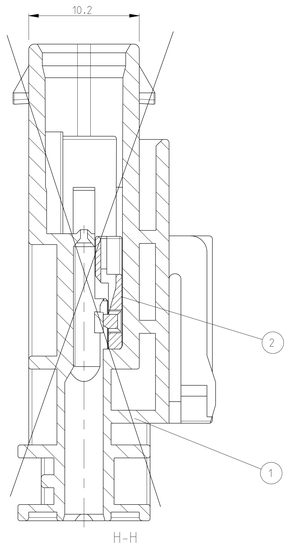


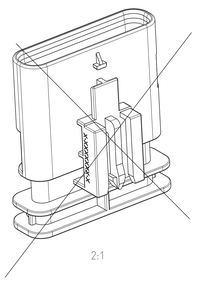
RETAINER MOVING DIRECTION
2. Kontaktsicherung Verschiebeweg

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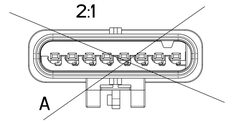




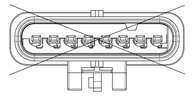


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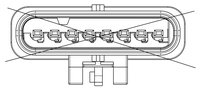
CODINGS
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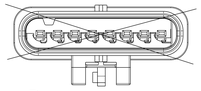
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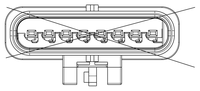
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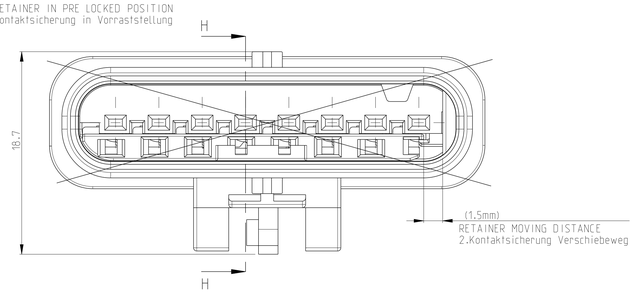


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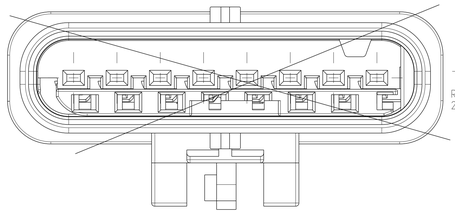


Z 5-1703506-2

RETAINER IN PRE LOCKED POSITION
Kontaktsicherung in Vorraststellung



RETAINER IN FINAL LOCKED POSITION
2.Kontaktsicherung in Endraststellung



RETAINER MOVING DIRECTION
2.Kontaktsicherung Verschieberichtung

USED MCON 1.2mm LL MALE TERMINALS AND SEALS				
TE-P/N TERMINALS	WIRE RANGE	TE-P/N SINGLE WIRE SEAL	BLIND PLUG	
2141868	0.08 - 0.22mm²	967067-2	967056-1	
1718758	0.25 - 0.35mm²	967067-2		
1718760	0.5 - 0.75mm²	967067-1		
1718762	1mm²	967067-1		
TERMINAL TE-APPLICATION SPEC: 114-18464				

5-1703506-2	Z	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	schwarz/BLACK	1z
4-1703506-2	D	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	schwarz/BLACK	1d
3-1703506-2	C	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	schwarz/BLACK	1c
2-1703506-2	B	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	grau/GRY	1b
1-1703506-2	A	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLETT	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	schwarz/BLACK	1a
TE-Bestell-Nr. ORDER-NO.	CODE	Benennung TITLE	QTY	Benennung Einzelteil TITLE	Werkstoff MATERIAL	Oberfläche/Farbe SURFACE/COLOUR	Pos. ITEM

~~1-1703506-4~~	A	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	~~2~~
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	gelb/YELLOW	1a
5-1703506-1	Z	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	schwarz/BLACK	1z
4-1703506-1	D	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	schwarz/BLACK	1d
3-1703506-1	C	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	schwarz/BLACK	1c
2-1703506-1	B	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLET	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	grau/GRY	~~1b~~
1-1703506-1	A	Stiftgehaeuse 8pol. MALE HOUSING 8POS.	1	Kontaktsicherung RETAINER	PA66-GF35	violett/VIOLETT	2
			1	Stiftgehäuse MALE HOUSING	PBT-GF30	schwarz/BLACK	1a
TE-Bestell-Nr. ORDER-NO.	CODE	Benennung TITLE	QTY	Benennung Einzelteil TITLE	Werkstoff MATERIAL	Oberfläche/Farbe SURFACE/COLOUR	Pos. ITEM

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.5
1 PLC ±0.5
2 PLC ±0.5
3 PLC ±0.5
4 PLC ±0.5
ANGLES ±1°

MATERIAL -
FINISH -

DRN A.LOECSER 08OCT2012
CHK H. RIPPER 08OCT2012
APVD -
PRODUCT SPEC 108-94177-1
APPLICATION SPEC 114-18910-1
WEIGHT -

TE Connectivity

NAME ASSY MALE HOUSING, 8Pos. MCON 1.2 SEALED

SIZE A0 | CAGE CODE 00779 | DRAWING NO C-1703506 | RESTRICTED TO -
SCALE 5:1 | SHEET 1 OF 1 | REV A

Customer Drawing

4806 (3/11)

1.2mm MCON LL SEALED MALE HOUSING FAMILY

1. SCOPE

1.1 Content
1.2 Qualification
1.3 Male Housing Overview

2. APPLICABLE DOCUMENTS

2.1 TE Documents
2.2 Other Documents
2.3 Male Housing Overview

3. REQUIREMENTS

3.1 Design and Construction
3.2 Materials
3.3 Ratings
3.4 Performance and Test Description
3.5 Test Requirements and Procedures Summary

*Trademark
| Indicates change

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1. SCOPE

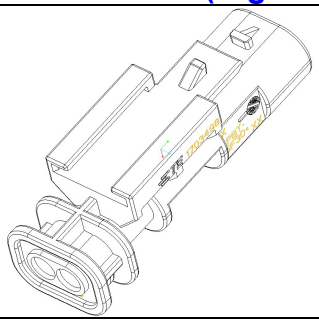
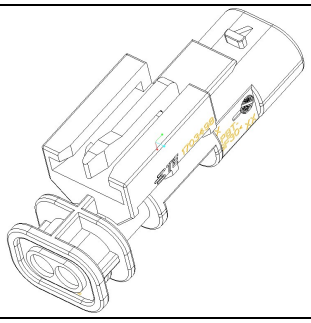
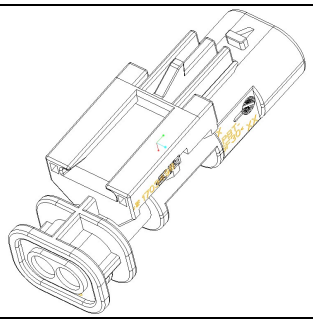
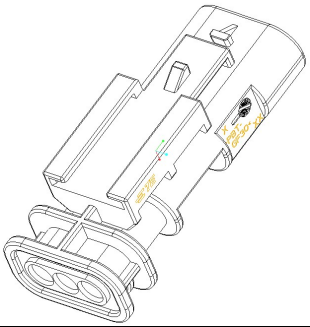
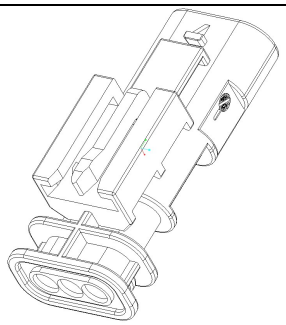
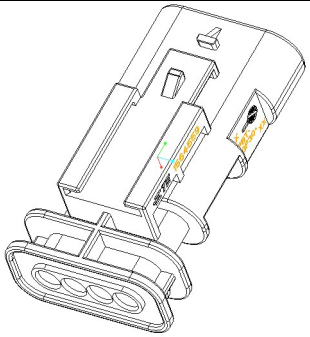
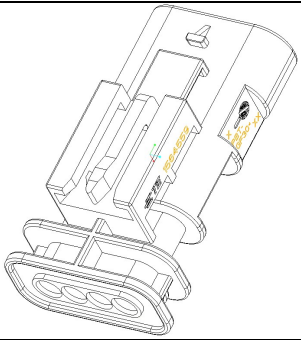
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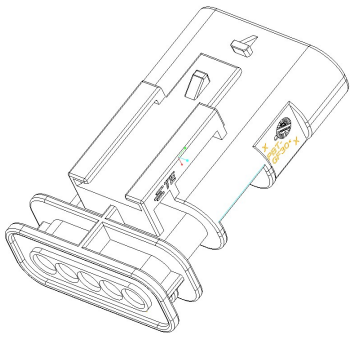
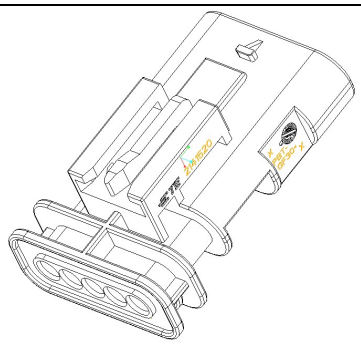
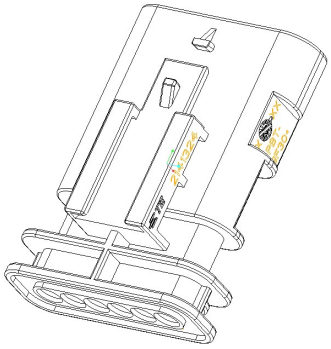
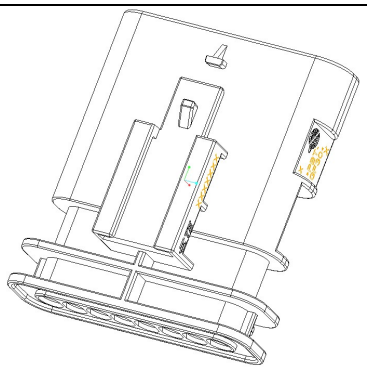
This specification covers the performance, tests and quality requirements for the
1.2mm MCON LL SEALED MALE HOUSING FAMILY

1.2 Qualification

When tests are performed the following specified specifications and standards shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

1.3 Male Housing Overview

Male Housing Overview			
	X-1703498-1	**X-1703498-2**	**X-1703498-3**
	x-2236952-x (High Temp)		
2 way			
	x-1703494-1	**x-1703494-2**	**-**
	x-2236953-x (High Temp)	**-**	**-**
3 way			
	x-1564559-1	**x-1564559-2**	**-**
4 way			

5 way	x-2141520-1	x-2141520-2	-
	x-2236954-x (High Temp)	-	-
			
6 way	x-2141324-1	-	-
			
8 way	x-1703506-1	-	-
			

2. APPLICABLE DOCUMENTS

The following documents from a part of this specification to the extent specified herein. In the events of conflict between the requirements of this specification and the product drawing or of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

2.1 TE Documents

A **109-1: General Requirements for Test Specifications**

B **Customer Drawings**

Low temp (-40°C to 125°C): 1703498, 1703494, 1564559, 2141520, 2141324, 1703506
High temp (-40°C to 150°C): 2236952, 2236953, 2236954

C **Product Specifications for AMP MCP 1.2-Contact**
108-18782

D **Application Specification for AMP MCP 1.2-Contact**
114-18464

E **Application Specification for Male Housings**
114-18910

F **Product Specifications for Female Housings**
108-18969

G **Wire size to be used 0,5 mm² to 1,5 mm²**

H **For the optimum single wire seal option please check**
Application Specification 114-18025

2.2 Other Documents

SAE International; USCAR-2; Revision 6; Revised: February 2013.
PERFORMANCE SPECIFICATION FOR AUTOMOTIVE
ELECTRICAL CONNECTOR SYSTEMS

3. REQUIREMENTS

3.1 Design and Construction

Product shall be of the design, construction and physical dimensions specified on the applicable or customer drawing.

3.2 Materials

Descriptions for material see in customer drawings.

3.3 Ratings

A **Voltage acc.** *IEC 664 (DIN VDE 0110)*

B **Current carrying capability of used contacts see specification 108-18782**

C **Low Temp version: Temperature -40 to +125 °C; US-Car 2 Spec. Temp. Class 3 *)**
High Temp version: Temperature -40 to +150 °C; US-Car 2 Spec. Temp. Class 4 *)

D **Durability depends on contacts see 3.5**
See specification 108-18782

***)** **ambient temperature and heating up by current**

3.4 Performance and Test Description

The product is designed to meet the electrical, mechanical and environmental performance requirements specified in paragraph 3.5.

3.5 Test Requirements and Procedures Summary

Test Description	Requirement	Procedure
Visual- and dimensional examination	Meets requirements of product-customer-drawing	
ELECTRICAL INSPECTIONS		
Current-temperature capability	See TE-Specification Female Housing 108-18969, Dependent of the application and type, different values result for which reason reference should be made to examples in the specification. When a comparable example cannot be found, the application must be investigated and tested on an individual basis.	
Max. temperature rise of contacts		
Change of temperature rise at the end of lifetime		
Voltage proof	See TE-Specification Female Hsg. 108-18969, Value and nature of the test voltage 500V~ No disruptive/breakdown	See TE-Specification Female Hsg. 108-18969,
Insulation resistance	Insulation resistance > 100 MΩ	See TE-Specification Female Hsg. 108-18969,

MECHANICAL INSPECTIONS		
Terminal retention force *US-CAR 2*	**Without secondary lock** min. 30N **With secondary lock** min. 75N **The required retention forces are absolute values.**	**Acc. to US-Car 2; Rev. 6 Point 5.4.1 Testing speed: 50mm/min**
Terminal insertion force *US-Car 2*	**Tab:** max. 30N	**Acc. to US-Car 2; Rev. 6 Point 5.4.1 Testing speed 50mm/min**
Connector to connector mating force (connector fully loaded)	**Mating force :** max. 75N	**Acc. to US-Car 2; Rev. 6 Point 5.4.1 Testing speed 50mm/min**
Connector to connector unmating force (with connector lock fully disengaged, connector fully loaded)	**Unmating force:** max. 75N	**Acc. to US-Car 2; Rev. 6 Point 5.4.1 Testing speed 50mm/min**
Connector to connector unmating force (with connector lock fully engaged, connector fully loaded)	**Unmating force:** max. 110N	**Acc. to US-Car 2; Rev. 6 Point 5.4.1 Testing speed 50mm/min**
Vibration	**No physical damage** **No discontinuities greater than** t > 1 ms **change of contact resistance** *200 %* **Gold plated** *300 %* **Silver plated** *350 %* **Tinned**	**See TE-Specification Female Housing 108-18969,**

ENVIRONMENTAL INSPECTIONS		
Sealing test US-Car 2; Rev. 6	**Temp. Class 3 (125°C) Pressure / vacuum leak test (US-Car 5.6.6)** **For High temp versions: Temp. Class 4 (150°C) Pressure / vacuum leak test (US-Car 5.6.6)**	- **10 mating cycles** - **Submersion in salt water (22°C)** - **Air pressure test 48kPa (0.5bar)bend all conductors in the same direction (not performed) Observe samples 15sec. and verify that there no air bubbles** - **Vacuum Test 48kPA 7 15sec.** - **Isolation Resistance Test -5.5.1** - **Dry heat storage at 125°C / 70h** - **Visual inspection after disconnection** - **After heat soak perform immediately Pressure Leak Test up to 28kPa (0.3 bar) Visual inspection after disconnection**
	US-Car 5.6.6) Submersion test (US-Car 5.6.5)	- **10 mating cycles** - **Heat soak at 125°C 7 2h** - **Submersion the samples within 30sec. after removing from the heat chamber in 5% salt water with liquid washing soap (22°C)to a depth of 30-40cm for 30 minutes** - **After 30min. remove samples from salt water solution and perform the Isolation Resistance Test at 500V, DC (min.20MOhm acceptance criteria)** - **Repeat the steps 4 more times**
	High pressure Spray Test	- **Pressure /- Temperature: 80bar / 80°C** - **Test duration per side: 30s for 0°,30°,60°,90°** - **Distance between nozzle and specimen: 100-150mm**

Test sequence:

Pressure / Vacuum Leak Test➔ High Pressure Spray Test➔ Submersion Test ➔High Pressure Spray Test

	NAME	DATE	ORIGINAL FILE	
CREATED	A.Löcser	16DEC2008	Doc-Manager	
CHECKED				
CHANGE HISTORY	**NAME**	**DATE**	**REV**	**CHANGE**
	Székely L.	8JAN2019	B	High temp. versions added, overview table revised