

## AMP+\* Connector High Voltage Accessory (HVA) 280-2phm and HVA 280-3pxm XE with Seals and Shields Having 2-Stage Latching

### 1. INTRODUCTION

#### 1.1. Purpose

Testing was performed on AMP+ connector HVA 280-2phm and HVA 280-3pxm XE with seals and shields having 2-stage latching to determine conformance to product specification 108-32020.

#### 1.2. Scope

This report covers the electrical, mechanical, and environmental performance. The test file numbers are listed in the development plan and report (refer to Section 2).

#### 1.3. Conclusion

Test specimens conformed to the electrical, mechanical, and environmental performance requirements given in 108-32020. Test descriptions, acceptance criteria, and requirements are given in the development plan and report (refer to Section 2).

#### 1.4. Test Specimens

The test specimens were representative of normal production lots. The part numbers listed in Figure 1 were used for testing.

Part Number	Description	Development Plan and Report 501-32029-						
		1	2	3	4	5	6	7
Plug Assembly (Ref):								
2103014-X	Tin (Sn)-Plated Shields, 2x4-mm <sup>2</sup> Coroplast Cable	X						
2103437-X	Silver (Ag)-Plated Shields, 2x4-mm <sup>2</sup> Coroplast Cable		X					
2103163-X	Sn-Plated Shields, 2x4-mm <sup>2</sup> and 2x0.5-mm <sup>2</sup> Kroschu Cable			X				
2103436-X	Ag-Plated Shields, 2x4-mm <sup>2</sup> and 2x0.5-mm <sup>2</sup> Kroschu Cable				X			
2103309-X	3x2.5-mm Coroplast Cable					X	X	
2357851-X	Silver (Ag)-Plated Shields, 2x4-mm <sup>2</sup> Huber & Suhner Cable							X
Header Assembly, 2-Position:								
2103124-X	Sn-Plated Shields	X		X				
1-2103124-X	Ag-Plated Shields		X		X			X
1-2103247-X	Split Header, Ag-Plated Shields						X	
Inner Housing, 3-Position:								
2103321-X	Split Header						X	
Inline Cap Assembly, 3-Position								
2103240-X	Pigtail					X		

Coroplast is a trademark. Kroschu is a trademark. Huber & Suhner is a trademark.

Terminal							
2-2141598-2	Tab Contact, 2.8x0.8, Ag, 1.0-2.5-mm <sup>2</sup>						X
2-2141600-2	Tab Contact, 2.8x0.8, Ag, 2.5-4.0-mm <sup>2</sup>	X	X	X	X		X
963715-5	MQS Socket Contact, Gold (Au), 0.50-0.75 mm <sup>2</sup>			X	X		
963715-6	MQS Socket Contact, Ag, 0.50-0.75 mm <sup>2</sup>	X	X				X

**Figure 1**

## 2. TEST DATA

**501-32029-1:** AMP+ Plug HVA 280-2phm with Shunted High Voltage Interlock (HVIL) Tin-Plated Shields and 2x4-mm<sup>2</sup> Coroplast Cable Mated to AMP+ Header Assembly

**501-32029-2:** AMP+ Plug HVA 280-2phm with Shunted HVIL Silver-Plated Shields and 2x4-mm<sup>2</sup> Coroplast Cable Mated to AMP+ Header Assembly

**501-32029-3:** AMP+ Plug HVA 280-2phm with Pass-Through HVIL Tin-Plated Shields and 2x4-mm<sup>2</sup> and 2x0.5-mm<sup>2</sup> Kroschu Cable Mated to AMP+ Header Assembly

**501-32029-4:** AMP+ Plug HVA 280-2phm with Pass-Through HVIL Silver-Plated Shields and 2x4-mm<sup>2</sup> and 2x0.5-mm<sup>2</sup> Kroschu Cable Mated to AMP+ Header Assembly

**501-32029-5:** AMP+ Plug HVA 280-3pxm XE with Silver-Plated Shields and 3x2.5-mm<sup>2</sup> Coroplast Cable Mated to AMP+ In-Line Cap Assembly

**501-32029-6:** AMP+ Plug HVA 280-3pxm XE with Silver-Plated Shields and 3x2.5-mm<sup>2</sup> Coroplast Cable Mated to AMP+ Header Assembly

**501-32029-7:** AMP+ Plug HVA 280-2phm with Shunted HVIL Silver-Plated Shields and 2x4-mm<sup>2</sup> Huber & Suhner Cable Mated to AMP+ Header Assembly

<b>LTR</b>	<b>REVISION RECORD</b>	<b>DWN</b>	<b>APP</b>	<b>DATE</b>
B	Added 501-32029-7 qualification test report details	Praveen HM	S. Revankar A. Herrmann Y. Soonavala	19-NOV-2020