



AMP

AMP MCP2.8 Contact System

Technical Data

– **Material:**

Contact: CuNiSi/CuSn4
Tabs: CuSn4
Top Spring: Spring Steel

– **Contact Finish:**

tin plated/selective silver plated/
selective Au

– **Wire Size Range:**

0,35 mm²/0,5–1 mm²/
>1–2,5 mm²/
Single Wires (FLR)
>2,5–4 mm² Single Wires (FLK)

– **Current Carrying Capacity:**

up to 40 Ampere (at 20 °C ambient
temperature)

– **Temperature Range:**

-40 °C ... +130 °C (tin plated)
-40 °C ... +150 °C (silver plated/Au)

– **Mating Frequency:**

up to 20 cycles (tin plated)
up to 50 cycles (silver plated)
up to 100 cycles (Au)

– **Contact Resistance:**

New State: $\leq 2,0$ m Ω

– **Mating Force:**

3 to 10 N

– **Unmating Force:**

2 to 10 N

– **Centerline:**

5,0 x 5,5 mm/staggered
5,0 x 5,0 mm (0,35–2,5 mm²)
5,5 x 5,5 mm/staggered
5,0 x 5,5 mm (2,5–4 mm²)
7,2 x 7,2 mm/
staggered 6,0 x 7,2 mm
(2,5–4 mm² EDS)

– **Second Locking Device**

– **Extraction Tool:**

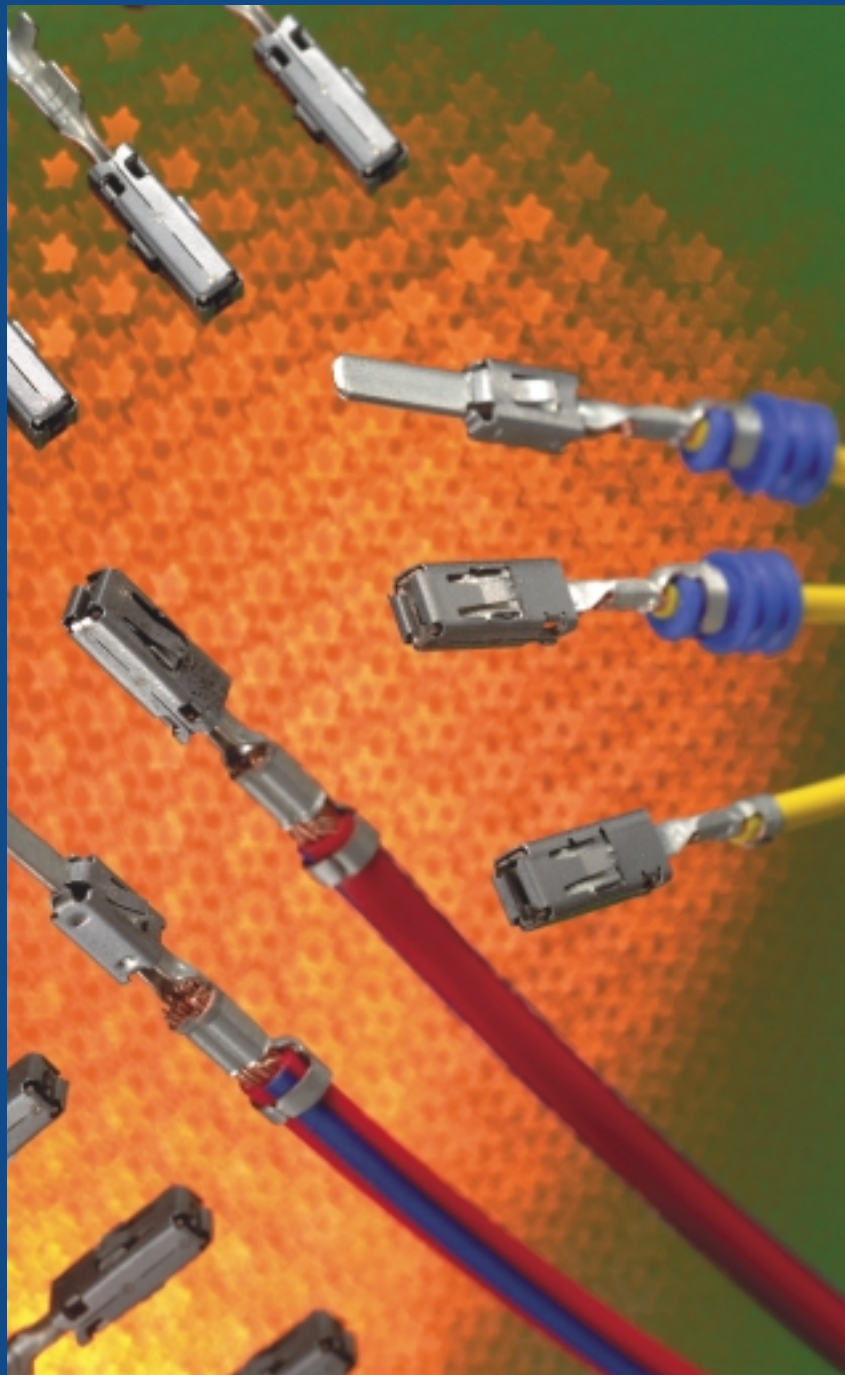
Part No. 929 039-1

– **Product Specification:**

108-18513

– **Application Specification:**

114-18148



Receptacle & Tab



~~Powertrain
Systems~~



~~Chassis
Systems~~



~~Safety~~



~~Security~~



~~Body~~



~~Driver
Information~~



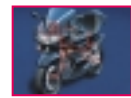
~~Convenience~~



~~Car Industry~~



~~Truck
Industry~~



~~Other
Industry~~

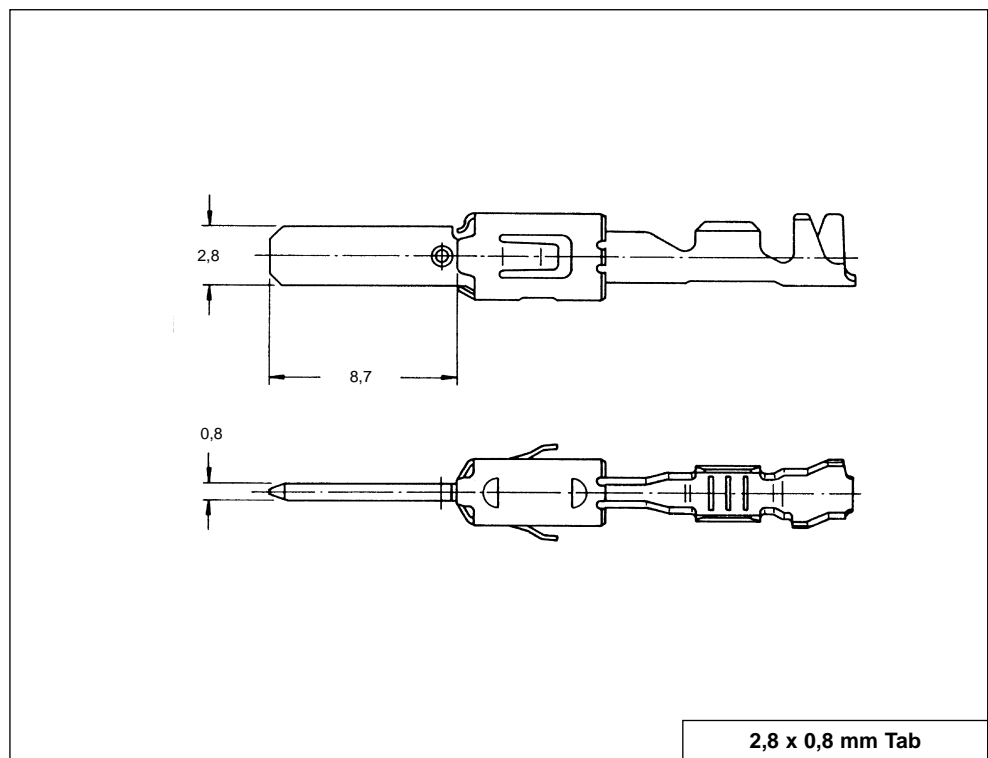
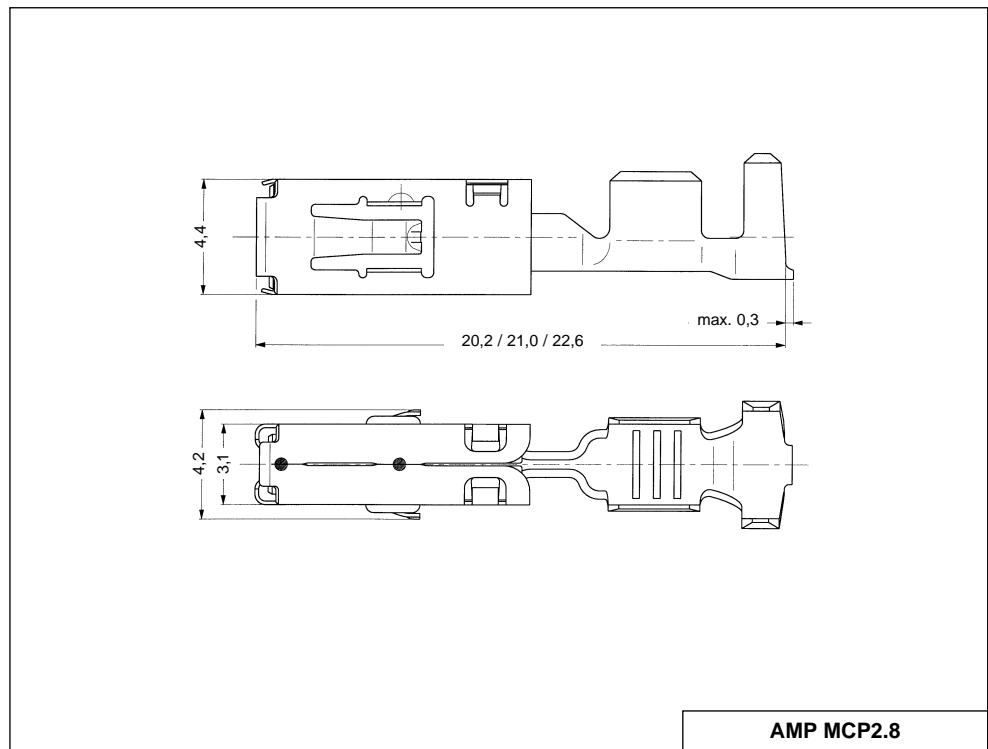
Main Advantages

- Basic material with high current capacity
- Wire range up to 4 mm²
- Maximal current capacity up to 40 Ampère
- Up to DGB 2,5 mm² same pitch as JPT
- Cavity compatible with Sensor Receptacle Contact
- Existing JPT housings can be used by exchanging cavity

Construction Features

- Four contact points
- Opened contact zone
- Secured contact spring by closed cavity
- Overstretch protection of the contact spring
- Good lead
- Insensitive to mechanical damage
- Two locking lances
- Secondary locking all-around possible (4 sides)
- Automatic assembling possible
- Normal Crimp and single sealing design
- Possible to stick on tabs 2,8 x 0,8 mm

Receptacle & Tab (continued)



Receptacle & Tab (continued)

Part Numbers

Contact Design	Wire Size Range (mm ²)	AMP MCP2.8 1)		Applicator	Handcrimp Tool	Hand Tool 539635-1 Die	Single Wire Seal	Blind Plug
		Strip Form	Loose Piece					
Standard	FLR/0,35	968880	968895	x-541562-x	-	539721-2	-	
	FLR/0,5-1,0	968849	968872	x-541535-x	-	539722-2	-	
	FLR/>1,0-2,5	968851	968873	x-541536-x	-	539723-2	-	
	FLR/>2,5-4,0	968853	968874	x-541534-x	-	539723-2	-	
	FLK/>2,5-4,0	929097	929098	-	-	-	-	
Single Sealing System	FLR/0,35	968882	968896	x-541563-x	-	539725-2	828904-1	
	FLR/0,5-1,0	968855	968875	x-878973-x	-	539726-2	828904-1	828922-1
	FLR/>1,0-2,5	968857	968876	x-878974-x	-	539727-2	828905-1	
	FLR/>2,5-4,0	968859	968877	x-541537-x	-	539727-2	828985-1	828986-1

Contact Design	Wire Size Range (mm ²)	2,8 x 0,8 mm Receptacle Contact 2)		Applicator	Handcrimp Tool	Hand Tool 539635-1 Die	Single Wire Seal	Blind Plug
		Strip Form	Loose Piece					
Standard	FLR/0,35	963860	963861	x-878549-x	734538-1	-	-	
	FLR/0,5-1,0	962841	963745	x-878550-x	734417-1	539758-2	-	
	FLR/>1,0-2,5	962842	963746	x-878552-x	734417-2	539758-2	-	
	FLR/>2,5-4,0	968946	968965	x-541534-x	-	539723-2	-	
	FLK/>1,0-2,5	929843	963747	x-878552-x	734417-2	-	-	
Einzeldichtungs-system	FLR/0,35	965982	965983	x-878558-x	-	539737-2	828904-1	
	FLR/0,5-1,0	962915	963748	x-878559-x	734438-1	539758-2	828904-1	828922-1
	FLR/>1,0-2,5	962916	963749	x-878560-x	734440-1	539758-2	828905-1	
	FLR/>2,5-4,0	968947	968966	x-541537-x	-	539727-2	828985-1	828986-1

- 1) 1-.. = CuNiSi ..-1 = pre-tin plated 2) 1-.. = CuSn4 ..-1 = pre-tin plated
 ..-2 = selective Au 2-.. = CuFe2 ..-2 = selective silver plated
 ..-3 = selective silver plated 3-.. = CuSnO,20 ..-3 = selective Au

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AMP Deutschland GmbH certified according ISO 9001, QS 9000/VDA6.1
 ISO 14000 certification is in preparation.

AMP companies are in more than 50 countries worldwide

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