Receptacle Contacts

Technical Features

Contact Material:
CuSn, CuFe, CuNiSi,
Cantilever Spring: Stainless Steel

Contact Finish:
tin plated, silver plated,
selective gold plated

Contact Resistance (New State):
≤2 mΩ

Total Temperature max.:
–40 °C to +130 °C (tin plated)
–40 °C to +140 °C (silver plated)
–40 °C to +150 °C (gold plated)

Mating Cycles:
10 (tin plated)
50 (silver plated)
100 (gold plated)

Insertion Force*:
max. 15 N (proof tab 0.8 mm thick)

Extraction Force*:
min. 2 N (proof tab 0.8 mm thick)

Retention Force:
– from housings without second locking device min. 120 N
– from housings only second locking device min. 60 N

Dimensions of Male Contacts:
4.8 x 0.8 mm,
5.8 x 0.8 mm,
6.3 x 0.8 mm

Modular Dimensions:
min. 6.0 x 7.5 mm

Extraction Tool:
Part No. **968107-1**
Part No. **1-1579007-6**

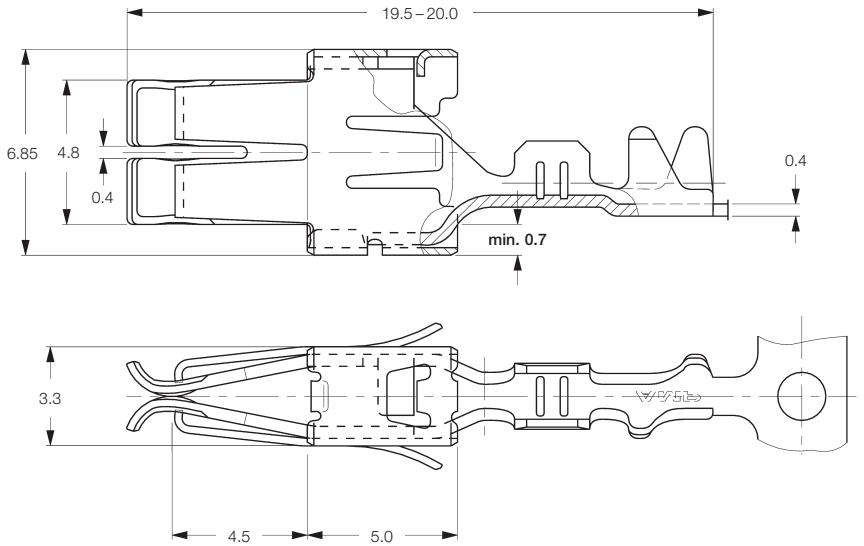
Product Group Drawing:
1355048
1355049 (Modified Spring)

Product Specification:
108-18025

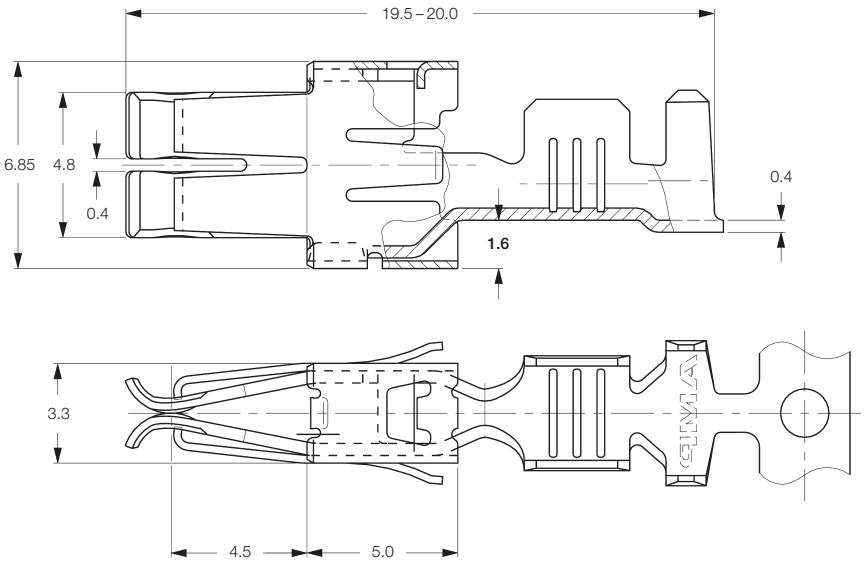
Application Specification:
114-18037

*) Measured with an Steel Test Tab (see Product Spec. 108-18279).

Receptacle Contact



With Modified Spring



Max. Current in 8 Positions Housing (Fully Loaded)

Material	Temperature (° C)	Current Carrying Capacity (Ampere)			
		1.0 mm²	1.5 mm²	2.5 mm²	4.0 mm²
CuFe	20	17.5	23.0	25.5	40.0
	90	8.0	10.5	12.0	17.0
CuSn	20	16.5	20.0	23.5	35.0
	90	7.5	9.0	11.0	16.0

Receptacle Contacts (continued)

Standard Receptacle Contacts

Wire Size Range (mm^2)	Insulation Diameter (mm)		Material and Finish*	Part Numbers					
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator◆	Hand Tool 539635-1 with Die Set
0.2–0.5	1.15–2.3	–	-1 / -2 / -3 / -4 / -5	927839	2,300	928989	2,000	878426	539733-2
0.5–1.0	2.0–2.7	–	-1 / -2	927827	2,300	927828	2,000	1528922	
			-2	1241834 1) 3)	2,300	1241835 1) 3)	2,000	1528922	–
>1.0–2.5	2.7–3.7	–	-1 / -2 / -5	927833	2,000	927834	500	1528490	539733-2
>2.5–4.0	3.3–4.5	–	-1 / -2	927824	2,000	927825	2,000	1530010	539734-2
>4.0–6.0	4.0–5.2	–	-1 / -2 / -3 / -4 / -5	963709	1,500	963714	500	1528386	–
			-1 / -5	1241818	1,500	1241819	500	1528386	2-1579021-9
0.2–0.5	–	1.15–1.6	-1 / -2 / -3 / -4 / -5 / -7	927840	2,300	928990	500	1426312	–
0.5–1.0	–	1.4–2.1	-1 / -2 / -3 / -4 / -5 / -7 / 1-xxx-5	927831	2,300	927832	400	1528295	539756-2
>1.0–2.5	–	2.2–3.0	-1 / -2 / -3 / -4 / -5 / -6 / -7 / 1-xxx-5	927837	2,300	927838	1,500	1528095	
1.5–2.5	–	2.2–3.0	-1 / -2 / -3 / -4 / -5	964203 2)	2,300	1241826 2)	–	1528095	
>2.5–4.0	–	2.7–3.7	-1 / -2 / -5 / 1-xxx-5	927829	2,300	927830	2,000	1528553	
1.5–3.0	3.0–3.4 Special Version		-5	1241174 1) 3)	2,000	1241175 1) 3)	–	1528476	–
1.5–3.0	3.0–3.4 Special Version		-1 / -2 / -5	964052	2,000	–	–	1528476	–
1.5–3.0	3.0–3.4 Special Version		-1 / -2 / -3 / -4 / -5	964204 2)	2,000	1241827 2)	–	1528476	539672-2

◆) The pre- and suffix for the applicators depends on the applied termination equipment.

Receptacle Contacts with Single Wire Sealing System

Wire Size Range (mm^2)	Insulation Diameter (mm)		Material and Finish*	Part Numbers					
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator◆	Hand Tool 539635-1 with Die Set
0.2–0.5	–	1.15–1.60	-1 / -2 / -7 / 1-xxx-2 / 2-xxx-2	927826	1,600	929921	500	878425	539736-2
0.5–1.0	–	1.4–2.1	-1 / -2 / -7 / 1-xxx-2 / 2-xxx-2	927836	1,500	929922	500	1528297	
>1.0–2.5	–	2.2–3.0	-1 / -2 / -7 / 1-xxx-2 / 1-xxx-3 / 2-xxx-1 / 2-xxx-2	927835	1,500	929923	500	1528102	
>2.5–4.0	–	3.4–3.7	-1 / -2 / -7 / 1-xxx-2 / 1-xxx-3 / 2-xxx-1 / 2-xxx-2	928966	1,500	929924	500	1528246	
AWG 12–10	2.05–2.59		-1	1241962	1,500	1241963	500	–	–

◆) The pre- and suffix for the applicators depends on the applied termination equipment.

*) **Material and Finish:**

xxx-1 = CuFe, pre-tin plated
xxx-2 = CuSn, pre-tin plated
xxx-3 = CuSn, selective pre-silver plated
xxx-4 = CuSn, pre-silver plated
xxx-5 = CuFe, pre-silver plated
xxx-6 = CuFe, selective nickel plated
xxx-7 = CuFe, selective gold plated
1-xxx-2 = CuFe, selective gold-tin plated, Spring selective gold plated
1-xxx-3 = CuFe, selective gold-gold plated, Spring selective gold plated
1-xxx-4 = CuFe, selective gold-tin plated
1-xxx-5 = CuFe, pre-silver plated 3–4.5 µm
2-xxx-1 = CuSn, selective gold-gold plated, Spring selective gold plated
2-xxx-2 = CuSn, selective gold-tin plated, Spring selective gold plated
2-xxx-4 = CuSn, selective gold-tin plated, Spring selective gold plated

Remarks:

1) = Gap Size 0.20 mm
2) = Gap Size 0.15 mm
3) = With One Locking Lance

Receptacle Contacts (continued)

Standard Receptacle Contacts with Modified Spring

Wire Size Range (mm^2)	Insulation Diameter (mm)		Material and Finish*	Part Numbers					
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator◆	Hand Tool 539635-1 with Die Set
0.2–0.5	–	1.15–1.60	-1	964322	2,300	964321	500	1530002	539665-2
0.5–1.0	–	1.4–2.1	-1	964324	2,300	964323	500	1528206	
>1.0–2.5	–	2.2–3.0	-1 / -5	964326	2,300	964325	500	1528095	
>2.5–4.0	–	3.4–4.7	-1 / -5	964328	2,100	964327	500	1528298	

Receptacle Contacts with Modified Spring and Single Wire Sealing System

Wire Size Range (mm^2)	Insulation Diameter (mm)		Material and Finish*	Part Numbers					
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator◆	Hand Tool 539635-1 with Die Set
0.5–1.0	2.3–2.7	1.4–2.1	1-xxx-1 / 1-xxx-2	964330	1,700	964329	500	1528297	539666-2
			-1	969040	1,500	969041	500	1528342	
>1.0–2.5	3.0–3.6	2.2–3.0	-5 / 1-xxx-1 / 1-xxx-2 / 1-xxx-5	964332	1,700	964331	500	1528102	
			-1	969042	1,500	969043	500	1528231	
>2.5–4.0	4.1–4.4	3.4–3.7	1-xxx-1 / 1-xxx-5	964334	1,500	964333	500	1528246	
			-1 / -5 / 1-xxx-5	969044	1,500	969045	500	1530003	
>1.0–2.5	–	2.2–3.0	-2 / 2-xxx-4	968035	1,500	968036	500	1528102	–
>2.5–4.0	–	3.4–3.7	-2 / 1-xxx-4 / 2-xxx-4	968037	1,500	968038	500	1528246	–
>4.0–6.0	–	3.6–5.1	1-xxx-6	1670426	–	1670427	–	–	–

*) **Material and Finish:**

xxx-1 = CuFe, pre-tin plated
xxx-2 = CuSn, pretin plated
xxx-5 = CuFe, pre-silver plated
1-xxx-1 = CuFe, pre-tin plated
1-xxx-2 = CuFe, selective gold plated
1-xxx-4 = CuFe, selective gold plated
1-xxx-5 = CuFe, pre-silver plated
1-xxx-6 = CuNiSi, Sn28M plated
2-xxx-4 = CuSn, selective gold plated

◆) The pre- and suffix for the applicators depends on the applied termination equipment.