

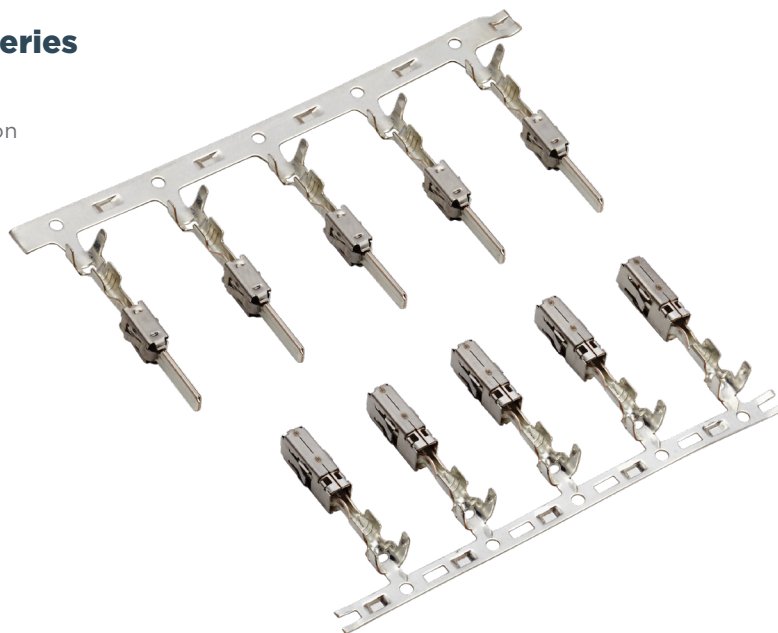
Heavy Duty Sealed Connector Series

Contacts

Heavy duty sealed connectors utilize the common AMP MCP stamped & formed contact system.

Product Specification: 108-18716

Application Specification: 114-18386



AMP MCP CONTACT PERFORMANCE SPECIFICATIONS

Durability
10 cycles (tin)
50 cycles (silver)
100 cycles (gold)

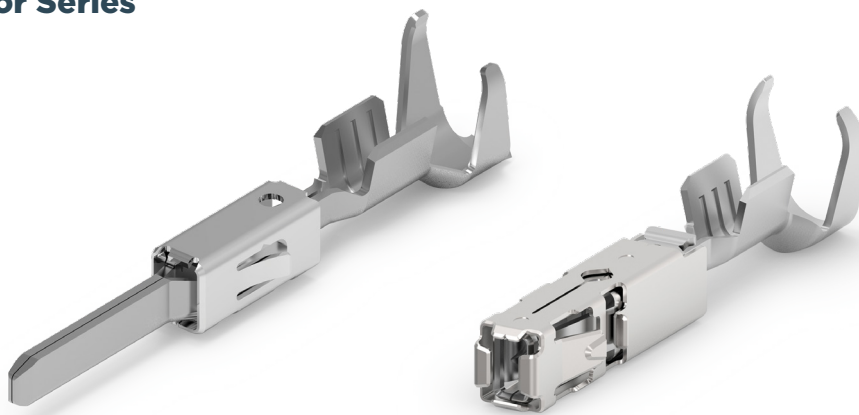
Current Rating	
Contact Size	Max Current
1.5K	Up to 20 A
2.8	Up to 30 A
6.3/4.8K	Up to 40 A

Contact Retention	
Contact Size	Min. Load
1.5K	40/60 N
2.8	80 N
6.3/4.8K	80 N

Crimp Tensile Strength	
Contact Size	Tensile Strength
1.5K	
.22 mm ²	≥ 32 N
.35 mm ²	≥ 50 N
.50 mm ²	≥ 60 N
.75 mm ²	≥ 85 N
1.0 mm ²	≥ 108 N
1.25 mm ²	≥ 135 N (16 AWG)
1.5 mm ²	≥ 135 N
2.8	
.22 mm ²	≥ 28 N
.35 mm ²	≥ 50 N
.50 mm ²	≥ 60 N
.75 mm ²	≥ 85 N
1.0 mm ²	≥ 108 N
1.5 mm ²	≥ 150 N
2.5 mm ²	≥ 200 N
6.3/4.8K	
.35 mm ²	≥ 50 N
.50 mm ²	≥ 60 N
.75 mm ²	≥ 85 N
1.0 mm ²	≥ 108 N
1.5 mm ²	≥ 150 N
2.5 mm ²	≥ 200 N
4.0 mm ²	≥ 310 N
6.0 mm ²	≥ 450 N

Heavy Duty Sealed Connector Series

Contacts



AMP MCP 1.5K CONTACTS

Stamped & Formed Tabs and Receptacles with Single Wire Sealing System

1.5K	Wire Size (mm ²)	Insulation Diameter FLR (mm)	Strip Form Part Number	Loose Piece Part Number	Finish Code
Receptacle Contacts	0.2-0.35	1.1-1.4	1564324	1564325	-1; -2; -3
	0.5-1.0	1.4-2.1	1241380*	1241381	-1; -2; -3; 1-x-2*
	>1.0-1.5	1.9-2.4	1418884	1418885	-1; -3
Tab Contacts	0.2-0.5	1.15-1.6	969028	969029	-2; -3; -5
			963902	963903	-1; -2; -3
	0.35		2141884*	2141885	-2; -3; -5; 2-x-2*
	0.5-1.0	1.4-2.1	963904	963905	-1; -2; -3
			964269*	964270	-2; -3; -5; 2-x-2*
	1.5	1.95-2.4	1703278	1703279	-2; -5

Material and Finish Codes with "*" are only available on their corresponding strip form or loose piece part number.

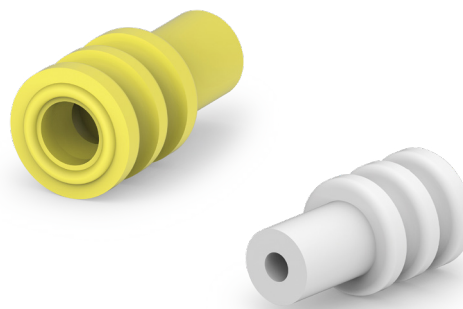
AMP MCP 1.5K TERMINAL MATERIAL AND FINISH CODES

	Finish Code	-1	-2	-3	-5	1-x-2	2-x-2
Receptacle Contacts	Material	CuNiSi	CuNiSi	CuNiSi	*	CuNiSi	*
	Plating	Pre-Tin	Select Gold	Select Silver	*	1.27um Select Gold	*
Tab Contacts	Finish Code	-2	-3	-5	1-x-1	1-x-2	1-x-3
	Material	CuSn4	CuFe2	CuSn4	CuSn4	CuFe2	CuFe2
	Plating	Pre-Tin	Pre-Tin	Select Gold	Select Silver	Select Silver	Select Silver

*Other configurations available upon request. Please contact TE for additional information.

Heavy Duty Sealed Connector Series

Wire Seals & Sealing Plugs



AMP MCP 1.5K WIRE SEALS

Wire Seals are required for connectors without an integrated rear seal to maintain an environmental seal.

Insulation Diameter (mm)	Cavity Size (mm)	Color	Part Number
0.9-1.2	3.6	Green	1718705-1
		Red	1718705-2
1.2-1.6		Red	964971-1
		Blue	1394133-1
1.4-1.9		Green	963530-1
1.9-2.4		Yellow	964972-1
2.2-2.4		Orange	2112323-1†
		Green	2287497-1†
		Brown	2287497-2†

[†] For cable with insulation diameter between 2.2 - 2.4mm, wire seal 2287497-1 is preferred, with improved insertion performance into housing.
Reduced 120°C temperature limit. 2112323-1 has 140°C temperature limit but increased insertion forces into housing.
2287497-2 has improved insertion performance & 140°C temp limit.
New part number appear in bold.

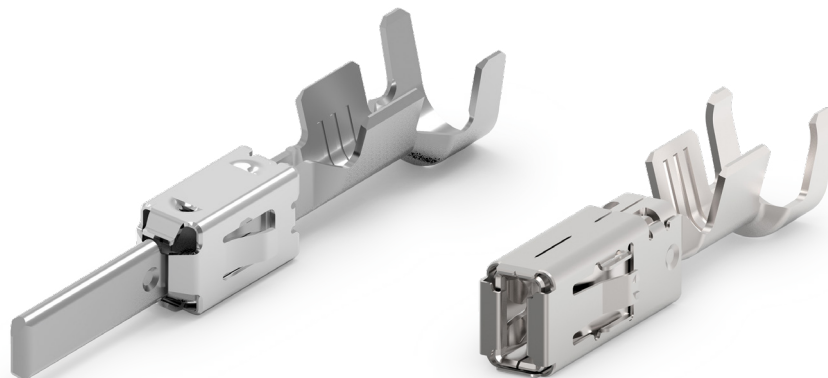
AMP MCP 1.5K SEALING PLUGS

Open cavities provide pathways for contaminants to enter the connectors. To maintain seal integrity, any unused cavity must be filled with the appropriate size sealing plug.

Cavity Size (mm)	Color	Part Number
3.6	White	963531-1
	Natural	1394132-1

Heavy Duty Sealed Connector Series

Contacts



AMP MCP 2.8 CONTACTS

Stamped & Formed Tabs and Receptacles with Single Wire Sealing System

2.8	Wire Size (mm ²)	Insulation Diameter FLR (mm)	Strip Form Part Number	Loose Piece Part Number	Material/Finish Codes
Receptacle Contacts	0.2-0.5	1.2-1.4	2141859	-	1-x-1; 1-x-2; 1-x-3
	0.5-1.0	1.4-2.1	968855	968875	1-x-1; 1-x-2; 1-x-3
	1.5-2.5	2.2-3.0	968857*	968876	1-x-1; 1-x-2*; 1-x-3; 2-x-3
	12 AWG	3.0-3.8	1719506	-	1-x-1; 1-x-3
Tab Contacts	0.2-0.5	max 2.1	965982	965983	1-x-1; 1-x-3
	0.5-1.0	max 2.1	962915*	963748	1-x-1; 1-x-2; 1-x-3; 2-x-1; 2-x-2; 2-x-3; 6-x-6*
	>1.0-2.5	max 3.0	962916	963749	1-x-1; 1-x-2; 1-x-3; 2-x-1; 2-x-2; 2-x-3
	>2.5-4.0	max 3.7	968947	968966	1-x-1; 1-x-2; 2-x-1; 2-x-2; 3-x-1
	12 AWG	max 3.0	1719504	1719503	1-x-1; 1-x-2

Material and Finish Codes with "*" are only available on their corresponding strip form or loose piece part number.

AMP MCP 2.8 TERMINAL MATERIAL AND FINISH CODES

	Finish Code	1-x-1	1-x-2	1-x-3	2-x-1	2-x-2	2-x-3	3-x-1	6-x-6
Receptacle Contacts	Material	CuNiSi	CuNiSi	CuNiSi	*	*	CuNiSi	*	*
	Plating	Pre-Tin	Select Gold	Select Silver	*	*	Select Silver	*	*
Tab Contacts	Material	CuSn4	CuSn4	CuSn4	CuFe	CuFe	CuFe	CuSn 0.20	CuSn4
	Plating	Pre-Tin	Select Silver	Select Gold	Pre-Tin	Select Silver	Select Gold	Pre-Tin	Select Gold

*Other configurations available upon request. Please contact TE for additional information.

Heavy Duty Sealed Connector Series

Wire Seals & Sealing Plugs



AMP MCP 2.8 WIRE SEALS

Wire Seals are required for connectors without an integrated rear seal to maintain an environmental seal.

Insulation Diameter (mm)	Cavity Size (mm)	Color	Part Number
1.2-2.1	5.6	Light Blue	828904-1
			828904-2
			828904-3
2.2-3.0		White	828905-1

AMP MCP 2.8 SEALING PLUGS

Open cavities provide pathways for contaminants to enter the connectors. To maintain seal integrity, any unused cavity must be filled with the appropriate size sealing plug.

Cavity Size (mm)	Color	Part Number
5.4	Natural	828922-1
	Green	828922-2

Heavy Duty Sealed Connector Series

Contacts



AMP MCP 6.3/4.8K CONTACTS

Stamped & Formed Tabs and Receptacles with Single Wire Sealing System

6.3/4.8K	Wire Size (mm ²)	Insulation Diameter FLR (mm)	Strip Form Part Number	Loose Piece Part Number	Material/Finish Codes
Receptacle Contacts	0.35-0.5	1.2-2.3	1241410*	1241411	-1; -3*; 5-x-1*; 5-x-3*
	0.5-1.0	1.4-2.7	1241412	1241413	-1; -3
	>1.0-2.5	2.2-3.7	1241414	1241415	-1; -3
	>2.5-4.0	3.4-4.5	1241416	1241417	-1; -3
	4.0-6.0	3.4-4.3	1241418*	1241419	-4; 1-x-3; 2-x-3*
Tab Contacts	0.5-1.0	1.4-2.1	962917	963742	1-x-1; 1-x-2; 2-x-1
	>1.0-2.5	2.2-3.0	962918	963743	1-x-1; 1-x-2; 2-x-1; 2-x-2
	4.0	2.7-3.7	962919	963744	1-x-1; 1-x-2; 2-x-2
	6.0, 10 AWG	4.0-4.3	2112966	2112965	2-x-2

Material and Finish Codes with "*" are only available on their corresponding strip form or loose piece part number.

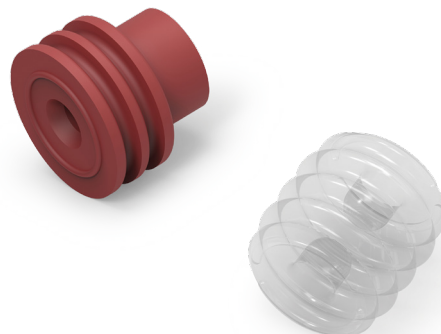
AMP MCP 6.3/4.8K TERMINAL MATERIAL AND FINISH CODES

	Finish Code	-1	-3	-4	1-x-1	1-x-2	1-x-3	2-x-1	2-x-2	2-x-3	5-x-1	5-x-3
Receptacle Contacts	Material	CuNiSi			*	*	CuNiSi	*	*	CuNiSi		
	Plating	Pre-Tin	Select Silver	Pre-Tin	*	*	Select Silver	*	*	Select Silver	Pre-Tin	Select Silver
Tab Contacts	Material	*	*	*	CuSn4		*	CuFe2		*	*	*
	Plating	*	*	*	Pre-Tin	Select Silver	*	Pre-Tin	Select Silver	*	*	*

*Other configurations available upon request. Please contact TE for additional information.

Heavy Duty Sealed Connector Series

Wire Seals & Sealing Plugs



AMP MCP 6.3/4.8K WIRE SEALS

Wire Seals are required for connectors without an integrated rear seal to maintain an environmental seal.

Insulation Diameter (mm)	Cavity Size (mm)	Color	Part Number
1.4-2.0	8.5	Yellow	2177018-1
2.0-2.7		White	1394511-1
2.7-3.0		Red-Brown	1823111-1
3.4-3.7		Blue	1394512-1
4.0-4.5		Green	1719043-1

AMP MCP 6.3/4.8K SEALING PLUGS

Open cavities provide pathways for contaminants to enter the connectors. To maintain seal integrity, any unused cavity must be filled with the appropriate size sealing plug.

Cavity Size (mm)	Color	Part Number
8.5	Transparent	967652-1