

Insertion - Extraction Force

For standard fast-on type receptacles made of CuZn-CuSn (TSE EN 61210)

Nominal Value	Insertion Force (Only one Insertion)	Extraction Force After Sixth Extraction
	Unplated N (max.)	Plated N (min.)
2.8	53	5
4.8	67	9
6.3	80	18
9.5	100	20

Current carrying capacity(*)

2.8 Fast-on Type Receptacles

Material/ Plating	Wire Size (mm ²)	Max. Current (A)	Ambient Temp. (°C)
CuZn	0.5	8	60
	0.75		65
	1		70
CuZn/Sn	0.5		80
	0.75		85
	1		90
CuSn	0.5		50
	0.75		60
	1		65
CuSn/Sn	0.5		70
	0.75		80
	1		90

6.3 Fast-on Type Receptacles

Material/ Plating	Wire Size (mm ²)	Max. Current (A)	Ambient Temp. (°C)
CuZn	0.5	10	50
	0.75	16	20
	1	18	20
	1.5	22	20
	2.5	26	25
	4	29	28
	6	32	38
CuZn/Sn	0.5	10	75
	0.75	16	40
	1	18	40
	1.5	22	40
	2.5	26	45
	4	29	50
	6	32	60

4.8 Fast-on Type Receptacles

Material/ Plating	Wire Size (mm ²)	Max. Current (A)	Ambient Temp. (°C)
CuZn	0.5	12	35
	0.75	15	25
	1	16	30
	1.5	16	40
	2.5	16	45
CuZn/Sn	0.5	12	55
	0.75	15	50
	1	16	50
	1.5	16	60
	2.5	16	65
CuSn	0.5	8	60
	0.75	10	50
	1	12	45
	1.5	16	45
	2.5	20	40
CuSn/Sn	0.5	8	95
	0.75	10	90
	1	12	85
	1.5	16	80
	2.5	20	80

9.5 Fast-on Type Receptacles

Material/ Plating	Wire Size (mm ²)	Max. Current (A)	Ambient Temp. (°C)
CuZn	4	32	35
	6	32	50
CuSn	4	32	65
	6	32	80

(*) According to DIN 46249 Teil 1.