

Technical Characteristics

M23 Power Connector Series L

Mechanical

Standards

Contact diameter 6poles	6 x Ø 2mm	–
Contact diameter 8poles	4 x Ø 2mm + 4 x Ø 1mm	–
Contact diameter 9poles	4 x Ø 2mm + 5 x Ø 1mm	–

Material

Shell	CuZn alloy, zinc die-cast	–
Machined contacts	CuZn alloy	–
Stamped contacts	Tin bronze, stainless steel	–
Inserts	PA	–
Sealing	FKM	–

Finishes

Shell plating	Nickel-plated, chromium plated	–
Machined contacts plating	Gold plated	–
Stamped contacts plating	Partly gold plated	–

Physical and environmental

Operating temperature range	-40°C... +125°C	EN 61984
Storage conditions	-40°C... +70°C / min. humidity 40%	–
Environmental level	IP67 (mated)	DIN EN 60529
Contamination level	2	DIN 60664-1
Installation altitude	Up to 2000 m	EN 61984
Fire & Smoke	Recognition file No E 178462	UL 1977
RoHS	Compliant	

Note:

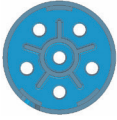
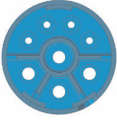
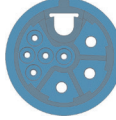
For detailed information please contact factory and ask for data sheet.

Technical Characteristics

M23 Power Connector Series L

Electrical

Standards

Contact diameter				
	6 x 2	4 x 2	4 x 1	4 x 2 5 x 1

Contact resistance (machined contacts)	≤ 5.0 mΩ (∅ 1mm) ≤ 3.0 mΩ (∅ 2mm)	– –
Contact resistance (stamped contacts)	≤ 5.0 mΩ (∅ 1mm) ≤ 5.0 mΩ (∅ 2mm)	– –
Overvoltage category	III	EN 61984

INNOVATION Series L (UL Version Series A)

Nominal voltage [Vrms]	630	630	250	–	DIN EN 60512
	600	600	250	–	USR
	600	600	250	–	CNR

SYSTEM 2000 Series L (UL Version Series A)

Nominal voltage [Vrms]	630	630	125	600	63	DIN EN 60512
	600	600	63	600	63	USR
	600	600	63	600	63	CNR

VERSION 1i Series L

Nominal voltage [Vrms]	630	630	125	–	DIN EN 60512
	600	600	125	–	USR



Technical Characteristics

M23 Signal Connectors Series S

Mechanical

Standards

Contact diameter 6/7poles	6/7 x Ø 2mm	–
Contact diameter 9poles	8 x Ø 1mm + 1 x Ø 2mm 6 x Ø 1mm + 3 x Ø 2mm 9 x Ø 1mm	– – –
Contact diameter 12/16/17poles	12/16/17 x Ø 1mm	–
Contact diameter 21poles	21 x Ø 0.6mm	–

Material

Shell	CuZn alloy, zinc die-cast, plastic	–
Machined contacts	CuZn alloy	–
Stamped contacts	Tin bronze, stainless steel	–
Inserts	PA, PPS, PBT	–
Sealing	FKM, NBR	–

Finishes

Shell plating	Nickel-plated, chromium plated	–
Machined contacts plating	Gold plated	–
Stamped contacts plating	partly gold plated	–

Electrical

Contact resistance	<5 mΩ	
Overvoltage categorie	III	EN 61984

Physical and Environmental

Operating temperature range	-40°C ... 125°C	EN 61984
Storage conditions	-40°C ... 70°C / min. humidity 40%	-
Environmental level	IP67 (mated)	DIN EN 60529
Contamination level	3	DIN 60664-1
Installation altitude	up to 2000 m	EN 61984
Fire & Smoke	Recognition file No E 178462	UL 1977
RoHS	Compliant	

