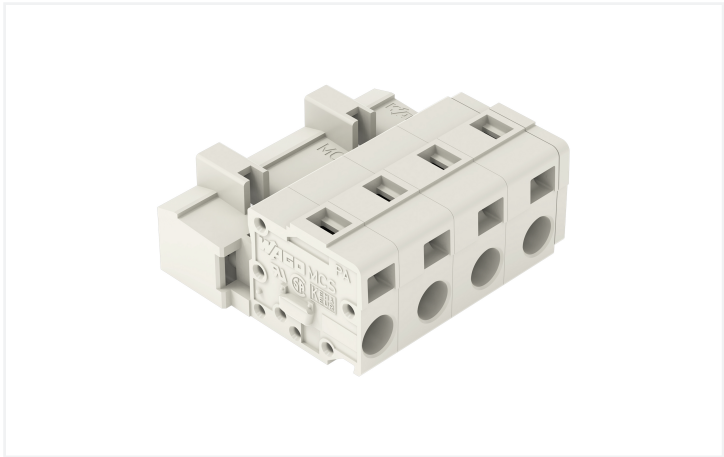
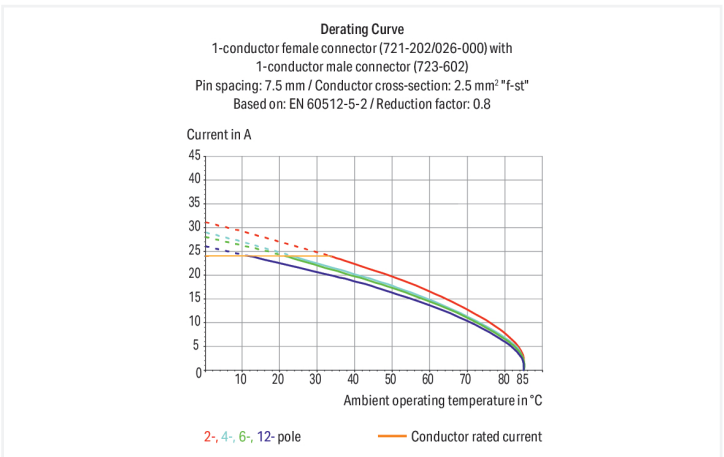
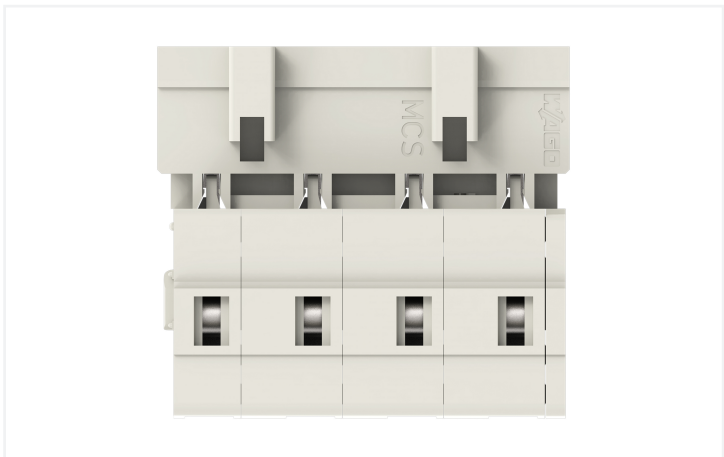
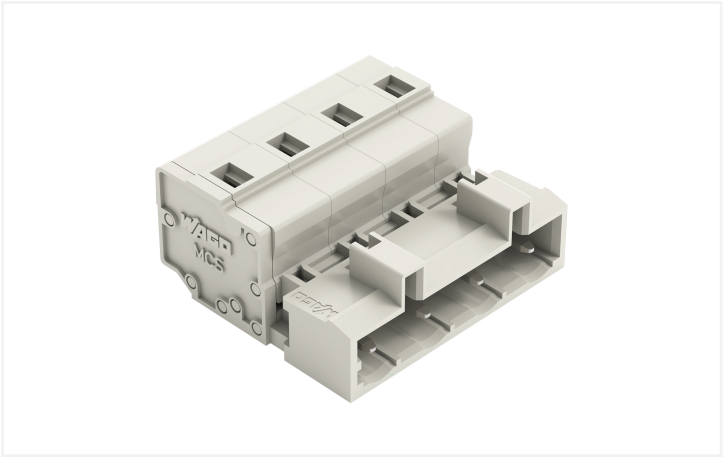
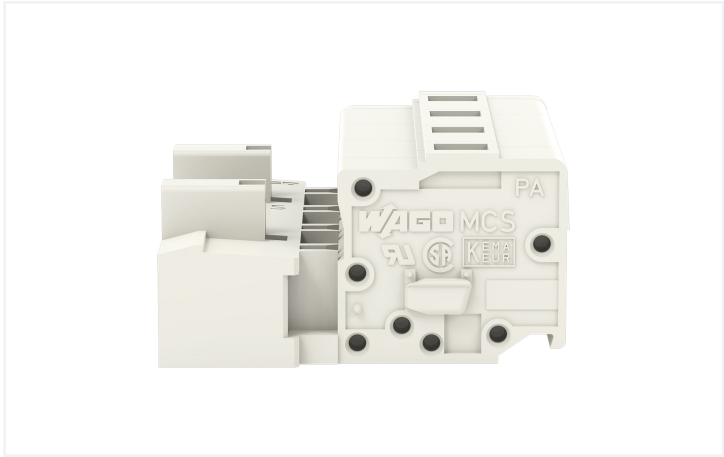
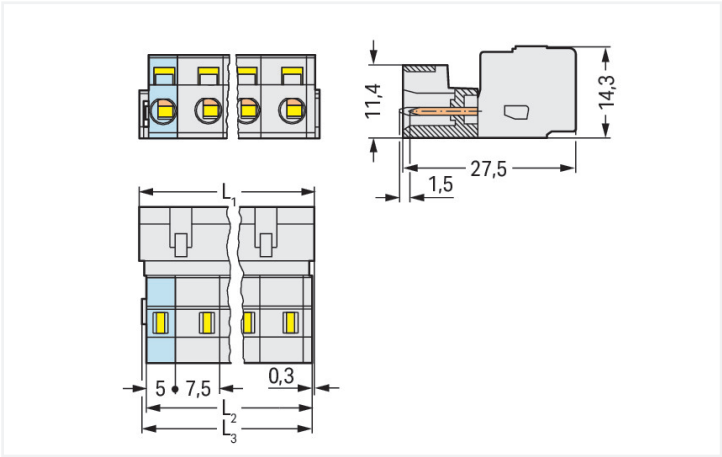




Color: ■ light gray





Dimensions in mm
L1 = (pole no. – 1) x pin spacing + 8.2 mmL2 = L1 – 1.7 mmL3 = L1 – 1.2 mm

Male connector, 723 Series, light gray

This male connector (item number 723-604) is designed for seamless electrical installations. Strip lengths must be between 8 and 9 mm when connecting conductors to this male connector. This product features one conductor terminal and utilizes CAGE CLAMP®. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. Dimensions: (30.7 x 14.3 x 27.5) mm (width x height x depth). Depending on the conductor type, this male connector is designed for conductor cross sections ranging from 0.08 mm² to 2.5 mm².

The contact surface is coated with tin.

Notes	
Safety Information	The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.
Variants:	Other pole numbers Gold-plated or partially gold-plated contact surfaces Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/ .

Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		500 V	630 V	1000 V
Rated impulse withstand voltage		6 kV	6 kV	6 kV
Rated current		12 A	12 A	12 A
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		15 A	-	10 A
Approvals per		UL 1977		
Rated voltage		600 V		
Rated current		15 A		
Approvals per		CSA		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		15 A	-	10 A



Connection Data		
Clamping units	4	
Total number of potentials	4	
Number of connection types	1	
Number of levels	1	
Connection 1		
Connection technology	CAGE CLAMP®	
Actuation type	Operating tool	
Actuation direction 1	Operation parallel to conductor entry	
Actuation direction 2	Operation perpendicular to conductor entry	
Solid conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG	
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG	
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm²	
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm²	
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches	
Pole number	4	
Conductor entry direction to mating direction	0°	

Physical data		
Pin spacing	7.5 mm / 0.295 inches	
Width	30.7 mm / 1.209 inches	
Height	14.3 mm / 0.563 inches	
Depth	27.5 mm / 1.083 inches	

Mechanical data		
Variable coding	Yes	
Anti-rotation protection	Yes	

Plug-in connection		
Contact type (pluggable connector)	Male connector/plug	
Connector (connection type)	for conductor	
Mismating protection	Yes	

Material data		
Note (material data)	Information on material specifications can be found here	
Color	light gray	
Material group	I	
Insulation material (main housing)	Polyamide (PA66)	
Flammability class per UL94	V0	
Clamping spring material	Chrome-nickel spring steel (CrNi)	
Contact material	Electrolytic copper (E _{Cu})	
Contact Plating	Tin	
Fire load	0.135 MJ	
Weight	7.6 g	



Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

Environmental Testing	
Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918265348
Customs tariff number	85366930000



Product Classification	
UNSPSC	39121409
eCl@ss 10.0	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 9.0	EC002638
ETIM 10.0	EC002638
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
  		
Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-113351
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-130478 REV.1
UR Underwriters Laboratories Inc.	UL 1059	E45172
UR Underwriters Laboratories Inc.	UL 1977	E 45171
Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

Approvals for marine applications		
   		
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	24-0095975-PDA
DNV DNV GL SE	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)
PRS Polski Rejestr Statków	-	TE/1095/880590/23



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 723-604

Documentation

Additional Information

Technical Section03.04.2019pdf2027.26 KB

CAD/CAE-Data

CAD data2D/3D Models 723-604

CAE dataEPLAN Data Portal 723-604ZUKEN Portal 723-604

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 721-334/031-000
1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray



Item No.: 721-334/008-000
1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Snap-in mounting feet; 2,50 mm²; light gray



Item No.: 721-204/026-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; 2,50 mm²; light gray



Item No.: 721-204/031-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray



Item No.: 721-204/037-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; 2,50 mm²; light gray



Item No.: 721-204/037-000/033-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; Strain relief plate; 2,50 mm²; light gray



Item No.: 721-204/008-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Snap-in mounting feet; 2,50 mm²; light gray



Item No.: 721-204/026-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; 2,50 mm²; light gray



Item No.: 721-204/031-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray



Item No.: 721-204/037-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; 2,50 mm²; light gray



Item No.: 721-204/008-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Snap-in mounting feet; 2,50 mm²; light gray



Item No.: 721-2204/037-000
2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; 2,50 mm²; light gray



Item No.: 721-2204/026-000
2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; with integrated end plate; 2,50 mm²; light gray



Item No.: 722-834
THT female header; angled; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; 0.6 x 1.0 mm solder pin; light gray



Item No.: 722-834/031-000
THT female header; angled; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; clamping collar; 0.6 x 1.0 mm solder pin; light gray



Item No.: 722-834/039-000
THT female header; angled; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Locking lever; 0.6 x 1.0 mm solder pin; light gray



1.1.1 Female connector/socket



Item No.: 722-834/047-000
THT female header; angled; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; 0.6 x 1.0 mm solder pin; light gray



Item No.: 722-734
THT female header; straight; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; 0.6 x 1.0 mm solder pin; light gray



Item No.: 722-734/031-000
THT female header; straight; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; clamping collar; 0.6 x 1.0 mm solder pin; light gray



Item No.: 722-734/039-000
THT female header; straight; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Locking lever; 0.6 x 1.0 mm solder pin; light gray



Item No.: 722-734/047-000
THT female header; straight; Pin spacing 7.5 mm; 4-pole; 100% protected against mismatching; Spacer flange; 0.6 x 1.0 mm solder pin; light gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: 231-130
Coding key; snap-on type; light gray

1.2.2 Cover

1.2.2.1 Cover



Item No.: 231-668
Lockout caps; for covering unused clamping units; gray

1.2.3 Ferrule

1.2.3.1 Ferrule



Item No.: 216-301
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item No.: 216-302
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



Item No.: 216-201
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white



Item No.: 216-101
Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored



Item No.: 216-202
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item No.: 216-102
Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored



Item No.: 216-203
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



Item No.: 216-103
Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated



Item No.: 216-204
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



Item No.: 216-104
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored



1.2.4 Insulation stop

1.2.4.1 Insulation stop



Item No.: 231-673
Insulation stop; 0.08-0.2 mm² / 0.2 mm²
"s"; white



Item No.: 231-674
Insulation stop; 0.25 - 0.5 mm²; light gray



Item No.: 231-675
Insulation stop; 0.75 - 1 mm²; dark gray

1.2.5 Marking

1.2.5.1 Marking strip



Item No.: 210-833
Marking strips; 25 m on roll; 6 mm wide;
plain; Self-adhesive; white



Item No.: 210-834
Marking strips; on reel; 5 mm wide; plain;
Self-adhesive; white

1.2.6 Strain relief

1.2.6.1 Strain relief housing



Item No.: 232-664
Strain relief housing; for female and male
connectors; 2 parts; Pin spacing 7.5 mm;
4-pole; gray

1.2.7 Tool

1.2.7.1 Operating tool



Item No.: 231-231
Combination operating tool; red



Item No.: 231-291
Operating tool; made of insulating material;
1-way; loose; red



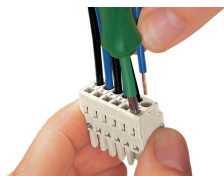
Item No.: 231-131
Operating tool; made of insulating material;
1-way; loose; white



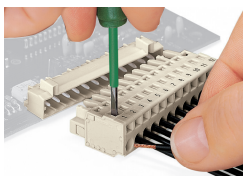
Item No.: 231-159
Operating tool; natural

Installation Notes

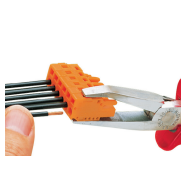
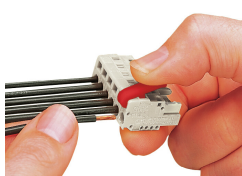
Conductor termination



Inserting a conductor via 3.5 mm screw-
driver – CAGE CLAMP® actuation parallel
to conductor entry.

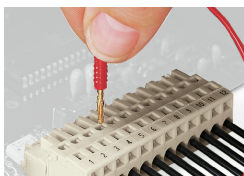


Inserting a conductor via 3.5 mm screw-
driver – CAGE CLAMP® actuation perpen-
dicular to conductor entry.



Inserting a conductor via operating tool.

Testing



Testing perpendicular to conductor entry with 2 or 2.3 mm Ø test plug – female connector with CAGE CLAMP® – via integrated test ports

Installation

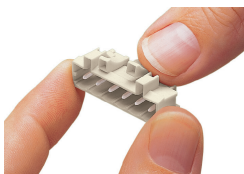


Male connector with strain relief plate



Strain relief housing shown with a male connector equipped with CAGE CLAMP®

Coding



Coding a male header – fitting coding key (s).