

Printed-circuit board connector - MC 1,5/16-ST-3,5 - 1840502

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Plug component, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

Why buy this product

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors



Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 111663
GTIN	4017918111663
Weight per Piece (excluding packing)	11.300 g
Custom tariff number	85366990
Country of origin	United States

Technical data

Dimensions

Length	16.1 mm
Height	11.1 mm
Width	56.00 mm
Pitch	3.5 mm
Dimension a	52.50 mm

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Technical data

General

Range of articles	MC 1,5/...-ST
Type of contact	Female connector
Number of positions	16
Connection method	Screw connection with tension sleeve
Insulating material group	I
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/3)	160 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	8 A
Nominal cross section	1.5 mm ²
Maximum load current	8 A (with 1.5 mm ² conductor cross section)
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A1
Stripping length	7 mm
Screw thread	M2
Tightening torque, min	0.22 Nm
Tightening torque max	0.25 Nm

Connection data

Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	0.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
2 conductors with same cross section, solid min.	0.08 mm ²
2 conductors with same cross section, solid max.	0.5 mm ²
2 conductors with same cross section, stranded min.	0.08 mm ²
2 conductors with same cross section, stranded max.	0.75 mm ²

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Technical data

Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	0.34 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm²
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	14

Standards and Regulations

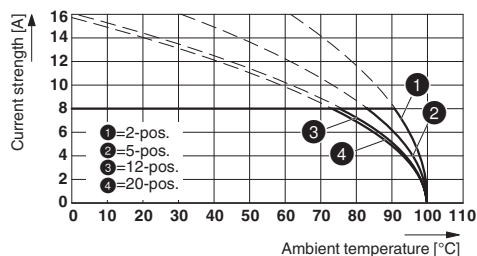
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

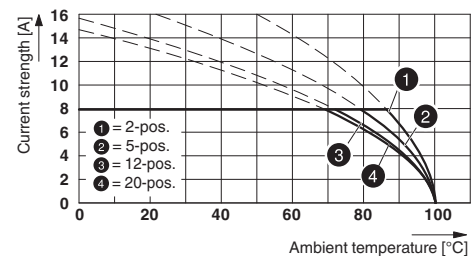
Drawings

Diagram



Type: MC 1,5/...-ST-3,5 with MCV 1,5/...-G-3,5

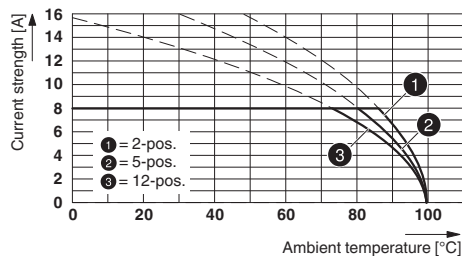
Diagram



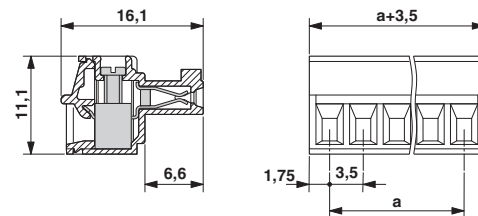
Type: MC 1,5/...-ST-3,5 with MC 1,5/...-G-3,5

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Diagram



Dimensional drawing



Type: MC 1,5/...-ST(F)-3,5 with MC 1,5/...-G(F)-3,5 P.. THR

Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27260704
eCl@ss 7.0	27440402
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638

UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409

Approvals

Approvals

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Approvals

Approvals

CSA / VDE Gutachten mit Fertigungsüberwachung / IECCE CB Scheme / CCA / cULus Recognized / EAC

Ex Approvals

Approval details

CSA		http://www.csagroup.org/services/testing-and-certification/certified-product-listing/	13631
	B	D	
mm²/AWG/kcmil	28-16	28-16	
Nominal current I _N	8 A	8 A	
Nominal voltage U _N	300 V	300 V	

VDE Gutachten mit Fertigungsüberwachung		http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx	40011723
mm²/AWG/kcmil	0.2-1.5		
Nominal current I _N	8 A		
Nominal voltage U _N	160 V		

IECEE CB Scheme		http://www.iecee.org/	DE1-58415-B1B2
mm²/AWG/kcmil	0.2-1.5		
Nominal current I _N	8 A		
Nominal voltage U _N	160 V		

CCA	CCA/ DE1 34219		
mm²/AWG/kcmil	0.2-1.5		
Nominal current I _N	8 A		
Nominal voltage U _N	160 V		

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Approvals

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20110128
	B	D	
mm²/AWG/kcmil	30-14	30-14	
Nominal current I _N	8 A	8 A	
Nominal voltage U _N	300 V	300 V	

EAC		B.01742
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Accessories

Accessories

Labeled terminal marker

Marker card - SK 3,5/2,8:FORTL.ZAHLEN - 0804073



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 99, Mounting type: Adhesive, for terminal block width: 3.5 mm, Lettering field: 3.5 x 2.8 mm

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Screwdriver tools

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Accessories

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

Terminal marking

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Office printing systems, Mounting type: Adhesive, Lettering field: 186 x 2.8 mm

Additional products

Base strip - MCV 1,5/16-G-3,5 - 1843745



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

Base strip - MC 1,5/16-G-3,5 - 1844359



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, Color: green, Contact surface: Tin, mounting: Wave soldering

Base strip - EMC 1,5/16-G-3,5 - 1897238



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, Color: green, Contact surface: Tin, mounting: Press-in technology

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Accessories

Base strip - EMCV 1,5/16-G-3,5 - 1911156



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, Color: green, Contact surface: Tin, mounting: Press-in technology

Base strip - MCDNV 1,5/16-G1-3,5 P26THR - 1952924



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, Color: black, Contact surface: Tin, mounting: THR soldering, The pin length is 26 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: [http: "Downloads"](http://Downloads).

Base strip - MCDNV 1,5/16-G1-3,5 P14THR - 1953156



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, Color: black, Contact surface: Tin, mounting: THR soldering, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: Downloads".

Base strip - MCDN 1,5/16-G1-3,5 P26THR - 1953855



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, Color: black, Contact surface: Tin, mounting: THR soldering, The pin length is 2.6 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: ["Downloads"](http://Downloads)

Base strip - MCDN 1,5/16-G1-3,5 P14THR - 1954074



Header, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 16, pitch: 3.5 mm, Color: black, Contact surface: Tin, mounting: THR soldering, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: [Downloads"](http://Downloads)
