

S-LINX 1.27 D

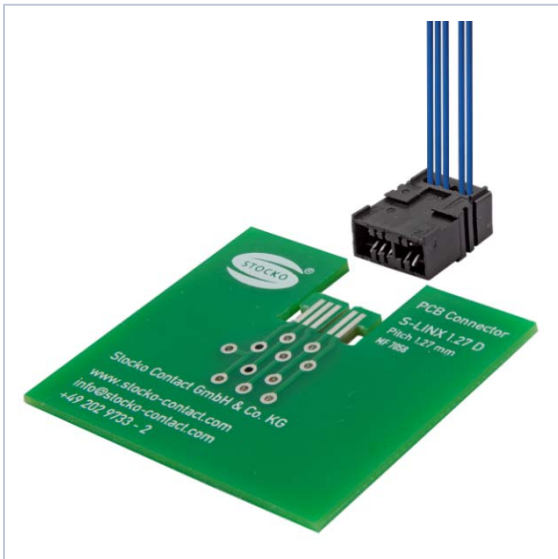


Fig.: MF 7058-006

S-LINX 1.27 D FOR DOUBLE-SIDED CONTACTING ON FR4 PCB

The small direct connector system with a pitch of 1.27 mm to connect wires to printed circuit boards (WtB).

Applications include LED lighting, sensor and control module contacting.

Two insulation displacement connectors for each contact for contacting wires in a cross section up to 0.35 mm<sup>2</sup> guarantee an electrically and mechanically stable connection between conductor and contact. The contacting of the conductors takes place in a simple manner by closing the preassembled cover.

Security by means of polarization elements, Koshiri security and active locking between connector and circuit board ensure the quality of the connection in handling and in the application.

In this case, the single connector can be used as an end connector or as a bus connector (daisy chain) for looping through signals or currents with discrete wires or ribbon cables. The connector contacts on both sides, top side and bottom side, classically HAL tinned contact pads on FR4 PCBs.

The use of selected materials allows an operating temperature where usual currents in LED applications can thus be transmitted even at increased ambient temperatures.

The connector system is designed taking into account the necessary tests such for automotive as for the requirements from the household appliances.

# S-LINX 1.27 D



Fig.: MF 7058-002

## FEATURES

### General

- Direct connector system
- Pitch 1.27 mm
- Compact design
- Simple and parallel contacting of all inserted wires by pre-assembled cover
- KOSHIRI-security possible
- Polarization and coding options
- Designed for FR4 PCBs
- Active locking between plug and PCB
- Sensible stop during insertion
- 50 V rated voltage
- 4 A rated current
- Continuous operating temperature up to 150 °C \*
- Meets automotive requirements acc. to LV 214, USCAR
- According to the requirements for white goods
- GWT 750 °C acc. to IEC 60335-1
- Compliance with the substance ban list according to REACH

### Connector

- Double insulation displacement terminal for high contact safety
- Fork spring contact system
- Discrete wires and ribbon cable
- Conductor cross-section 0.22 mm<sup>2</sup> up to 0.35 mm<sup>2</sup>
- 90° cable outlet upward or downward
- Color of housing is black, alternative natural
- Packaging in tube
- Automated further processing on semi-automatic machines as well as manual processing



Fig.: MF 7058-002 on PCB

\* depending on the materials and contact surfaces used

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Fig.: MF 7058-005 as a bus connector

TECHNICAL DATA

Mechanical

Pitch	1.27 mm
Positions *	2 to 8
Width, measure E	
2-pole	6.35 mm
3-pole	7.62 mm
4-pole	8.89 mm
5-pole	10.16 mm
6-pole	11.43 mm
8-pole	13.97 mm
10-pole **	16.51 mm
12-pole **	19.05 mm

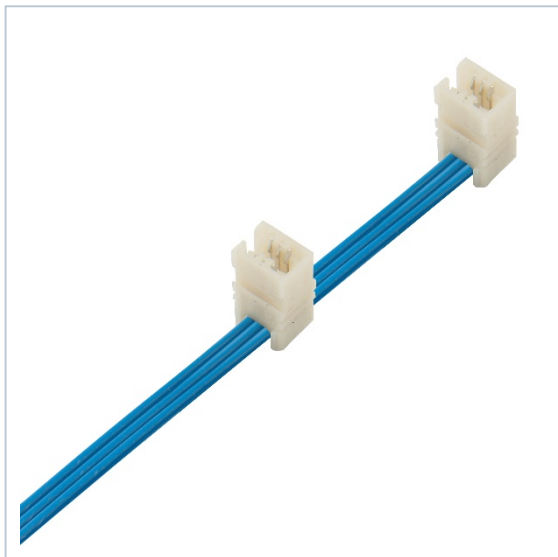


Fig.: MF 7058-003 as bus and end connector

Termination	ID terminals
Cable type	discrete wire / ribbon cable
Cable outlet	90° upward or downward
Conductor cross-section	0.22 mm <sup>2</sup> to 0.35 mm <sup>2</sup>
Wire outer diameter	≤ 1.3 mm
Hardness of insulation	max. Shore D 65
Type of wire	stranded or solid
Degree of pollution	2
Protection class	IP00, unsealed
Operating temperature	- 40 °C ...+ 130 °C
with contact surface Ag **	- 40 °C ...+ 150 °C
PCB thickness ***	1.6 mm ± 0.14 mm
PCB types	FR4
Contact durability	5
Insertion / withdrawal forces ****	
4 position connector	~ 49 N

\* 2-pole three housings in chain, 3- and 4-pole two housings in chain  
 \*\* on request  
 \*\*\* standard FR4 PCB acc. to IPC-4101C, class B/L  
 \*\*\*\* measured on steel gauge

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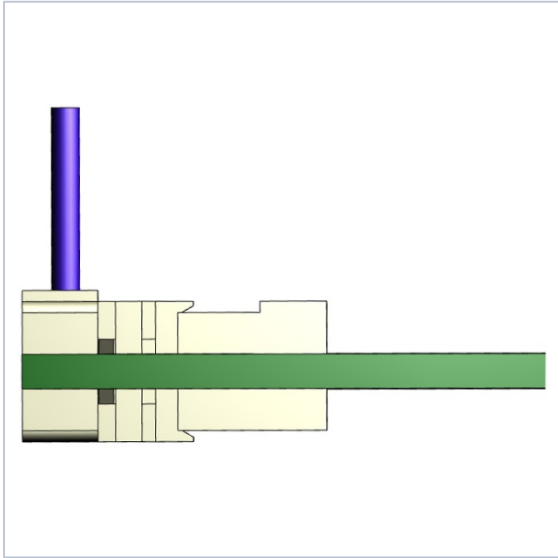


Fig.: MF 7058-006 on PCB side view

TECHNICAL DATA

Electrical

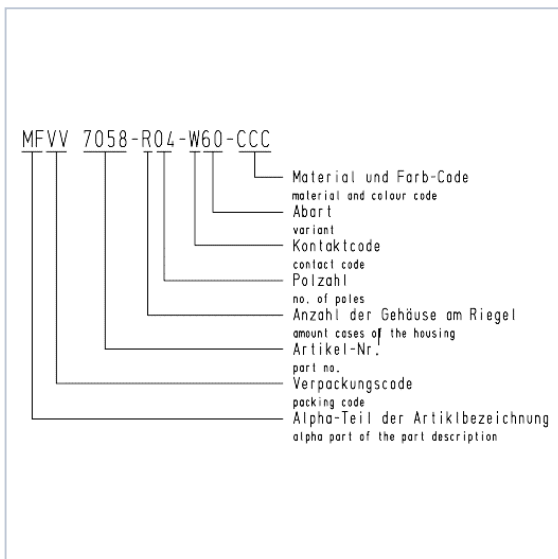
Rated current *	3 A at T <sub>Amb.</sub> 100 °C with 0.22 mm <sup>2</sup>
E.g. 8 pole, Sn surface	4 A at T <sub>Amb.</sub> 95 °C with 0.35 mm <sup>2</sup>
Rated voltage	50 V (IEC 60664 /degr. 2)
Dielectric strength housing material	0.5 kV
Insulation resistance	> 10 <sup>3</sup> MΩ
Contact resistance	< 10 mΩ
Air gap and creeping dist.	≥ 0.6 mm
Tracking resistance	CTI ≥ 600
Overvoltage category	II
Insulation group	I

Materials

Connector	PA-GF, glow wire resistant GWT 750 °C acc. to IEC 60335-1, UL 94V-0
Cover and housing	Black, Natural **
Color of housing	Copper alloy
Spring contact	Sn, Ag ***
Contact finishing	

Approval \*\*\*

VDE	DIN EN 61984
UL / ULC	UL 1977
Based on	LV 214
Based on	USCAR2
Life test	4,000 h (Domestic appliances cycle)

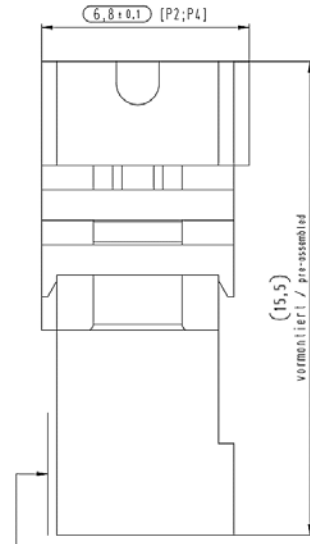
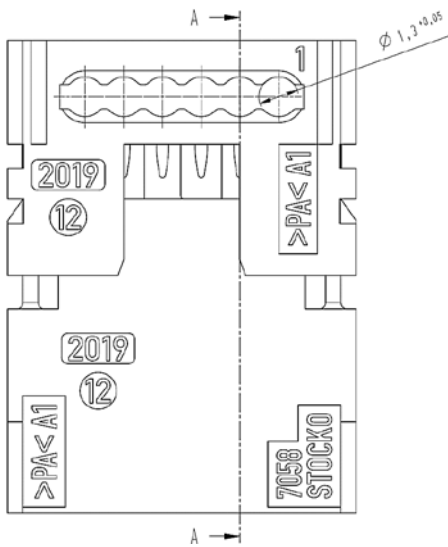
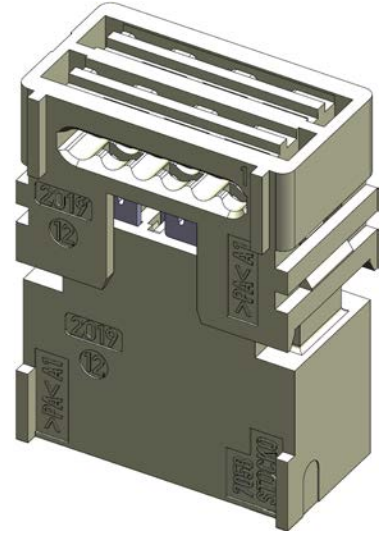
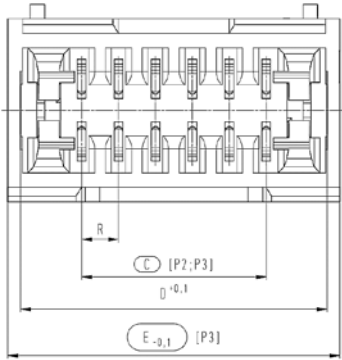


Example part description

\* Limit temperature depending on the materials and contact surfaces used  
 \*\* From 120 °C temperature-related color change possible  
 \*\*\* planned / in preparation, on request

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DIMENSIONS MF 7058 (EXTRACTION)



Farbkennzeichnung Kontaktcode  
 contact code colour identification  
 (nach / acc. to NN 30.48)  
 Bereich / area "A"

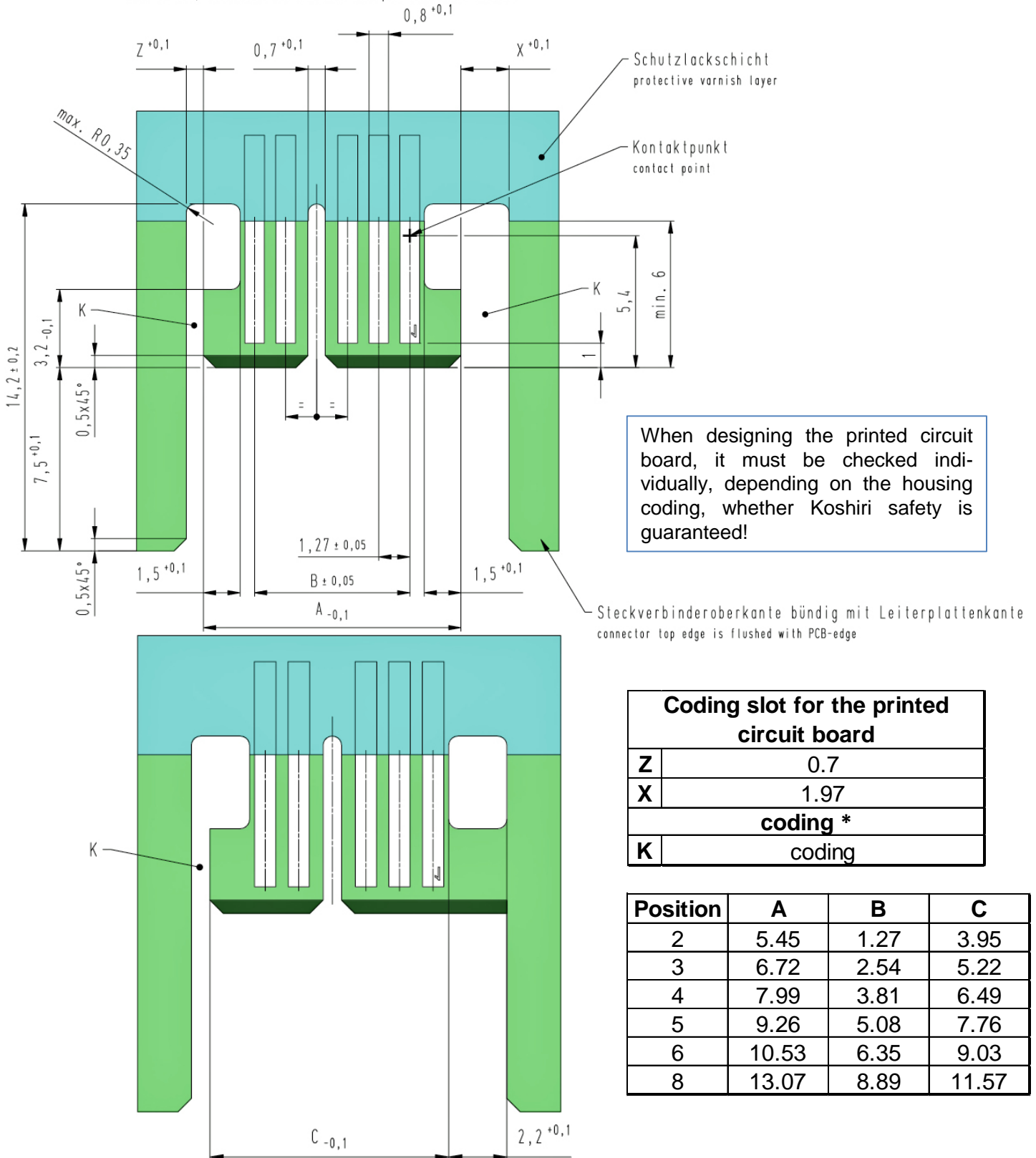


Partnumber	Positions	C	D	E
MFVV 7058-R02-WXX-CCC	2	1.27	5.47	6.35
MFVV 7058-R03-WXX-CCC	3	2.54	6.74	7.62
MFVV 7058-R04-WXX-CCC	4	3.81	8.01	8.89
MFVV 7058-005-WXX-CCC	5	5.08	9.28	10.16
MFVV 7058-006-WXX-CCC	6	6.35	10.55	11.43
MFVV 7058-008-WXX-CCC	8	8.89	13.09	13.97
MFVV 7058-010-WXX-CCC	10	11.43	15.63	16.51
MFVV 7058-012-WXX-CCC	12	13.97	18.17	19.05

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PRINTED CIRCUIT BOARD LAYOUT MF 7058 (EXTRACTION WN 30.47)

Blick auf die Platine, Kabelabgang nach unten (Beispiel: MFVV 7058-006-W64)  
 view on PCB, wire direction downside (Example: MFVV 7058-006-W64)



When designing the printed circuit board, it must be checked individually, depending on the housing coding, whether Koshiri safety is guaranteed!

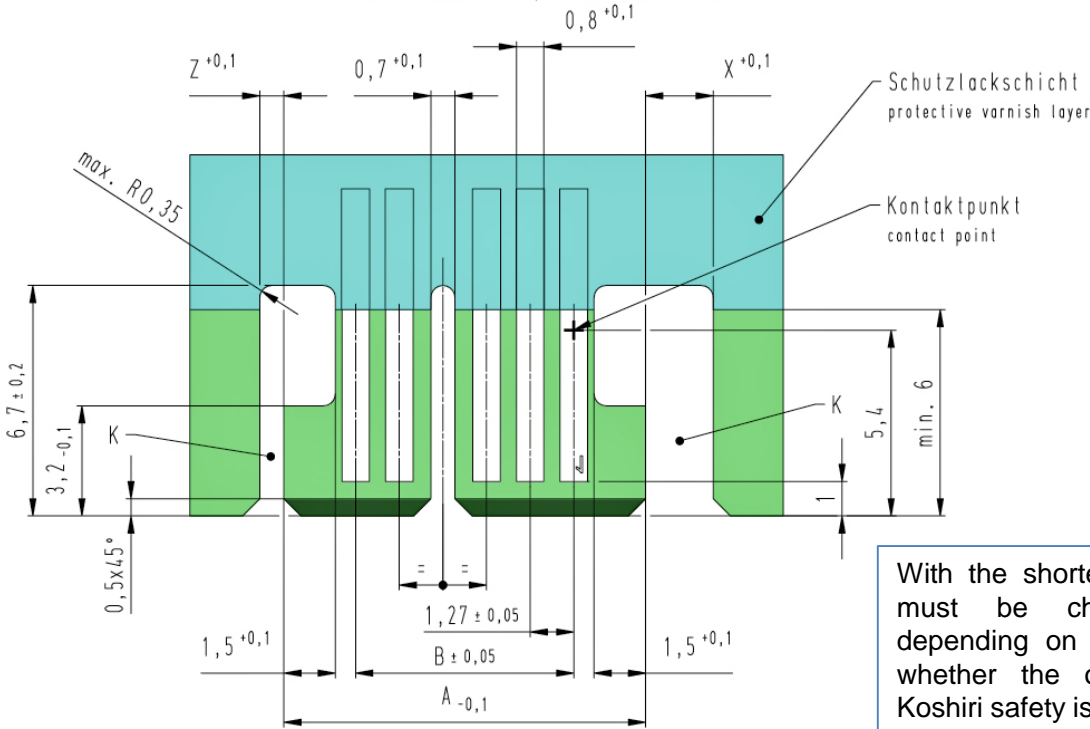
Coding slot for the printed circuit board	
Z	0.7
X	1.97
<b>coding *</b>	
K	coding

Position	A	B	C
2	5.45	1.27	3.95
3	6.72	2.54	5.22
4	7.99	3.81	6.49
5	9.26	5.08	7.76
6	10.53	6.35	9.03
8	13.07	8.89	11.57

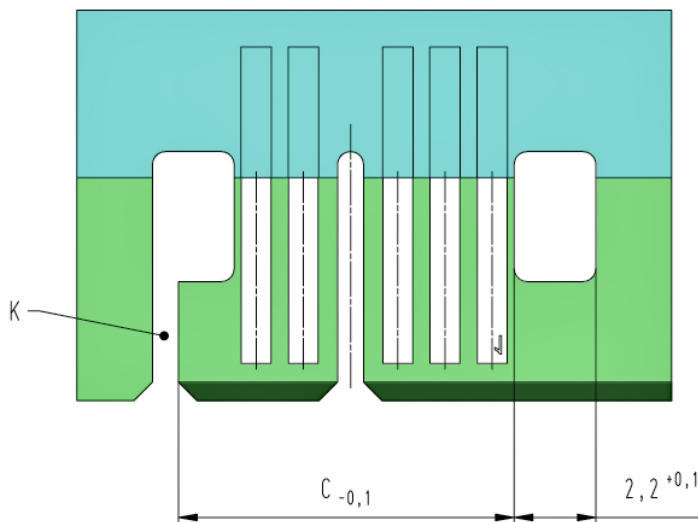
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SHORTENED PRINTED CIRCUIT BOARD LAYOUT MF 7058 (EXTRACTION WN 30.47)

Blick auf die Platine, Kabelabgang nach unten (Beispiel: MFVV 7058-006-W64)  
 view on PCB, wire direction downside (Example: MFVV 7058-006-W64)



With the shortened PCB design, it must be checked individually, depending on the housing coding, whether the oblique plug-in and Koshiri safety is guaranteed!



Coding slot for the printed circuit board	
Z	0.7
X	1.97
<b>coding *</b>	
K	coding

Position	A	B	C
2	5.45	1.27	3.95
3	6.72	2.54	5.22
4	7.99	3.81	6.49
5	9.26	5.08	7.76
6	10.53	6.35	9.03
8	13.07	8.89	11.57

The WN is subject to the change service and must therefore be taken into account in the respective current version. It can be found in the download area of the STOCKO CONTACT homepage ([www.stocko-contact.com](http://www.stocko-contact.com))



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