

# 1 Datasheet X-TEC 15K MANUAL ASSEMBLY-female 6-13 MM



source

destination

## 2 Application

Connection of 3-phase consumers with 2 Signalpins


## 3 General component properties

### 3.1 Cataloguing

DESIGNATION	VALUE	UNIT
product designation of manufacturer	X-TEC 15 Accessories	
Manufacturer Article Number	1146874	
Application standards	PERFORMANCE	
UL Mark	No	
eCl@ss 9.0	27-44-03-90	
country of origin	DE	

### 3.2 Electrical properties

DESIGNATION	VALUE	UNIT
rated current	16	A
Rated current auxiliary wires	10	A
rated voltage	600	V AC
Rated voltage auxiliary wires	250	V AC / DC
rated impulse voltage	6	kV
shielded	No	
protective conductor connection	according to VDE 0627	
Overvoltage category according to DIN EN 60664-1	3	
Plugging under voltage according to DIN EN 61984	No	
degree of contamination	3	
protective conductors	yes (PE)	
neutral conductor	No	
Degree of protection by encapsulation according to IEC 60529	No	
Reference to standard	DIN EN 61984 / IEC 61076-2-116	

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If the plug connection is disconnected for an indefinite period of time from a exposed to industrial atmospheres, the contact chamber is equipped with a cover cap to protect against pollution.

\*To determine max. load currents, deratings for used connection conductor cross-sections as well as reduction factors for conductors, cables and lines in the electrical equipment of machines according to DIN EN 60204-1 must be taken into account.

### 3.3 Weights

DESIGNATION	VALUE	UNIT
Connector Target	35,7	g

### 3.4 Approval


DESIGNATION	VALUE	UNIT
UL.CCN **	No	
CSA.CCN **	No	
CCC	No	
GOST-R	No	
CE Nomenclature	X-TEC 15K-XXX-KXX-XXXXX-KK-AX	

### 3.5 Thermal properties

DESIGNATION	VALUE	UNIT
Max. operating temperature	70	°C
Fixed temperature range (LLT-ULT)	-25 ... +70	°C

### 3.6 UL Ratings

DESIGNATION	VALUE	UNIT
max. connectable conductor size (AWG/KCMIL)	16-14	AWG
Auxiliary wires Wire gauge	14	AWG
flame-resistant (in accordance with UL94)	HB	

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### 3.7 Other features

DESIGNATION	VALUE	UNIT
RoHS compliant	2011/65/EU	
REACH SVHC substances	-	
halogen-free	Yes	
oil and grease resistant	Yes	
flame-resistant	Yes	

The material of the housing-encapsulation is plastic and has a good resistance to chemicals and oil. If aggressive media are used, the material resistance must be checked in relation to the application. Further details on request.

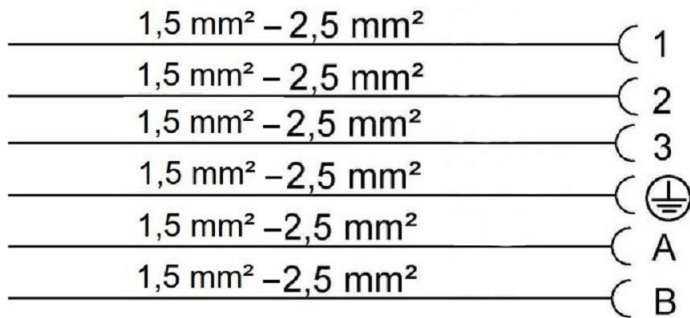
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## 4 General structure

### 4.1 Allocation plan



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## 5 Construction Destination

### 5.1 Pole diagram Target



### 5.2 Construction Destination

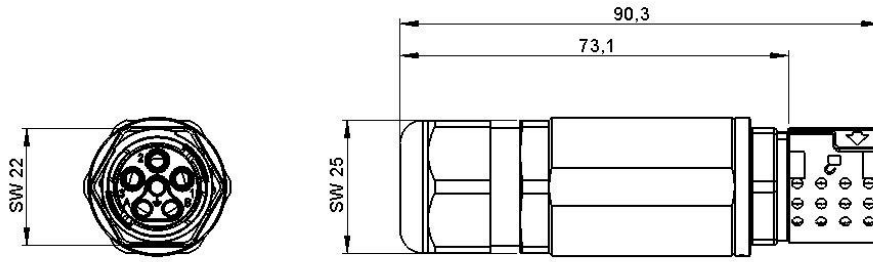
DESIGNATION	VALUE	UNIT
Size of construction	X-TEC 15	
Type of interlock	Quick release fastener	
Execution	free plug-in socket	
Number of poles	6	
Construction form of the plug connector	straight	
clamping area	6 - 13	mm
Material Seals	NBR, FPM	
production type	mounted	
material of housing	PA 6.6	
Material Insulating body	PA 6.6	
Type of connections	Crimp connection	
Material Contacts	Copper alloy, hard silver plated	
connectable wires	fine to finely stranded	
Degree of protection (IP), mounted	IP65	


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### 5.3 Schematic diagram Target

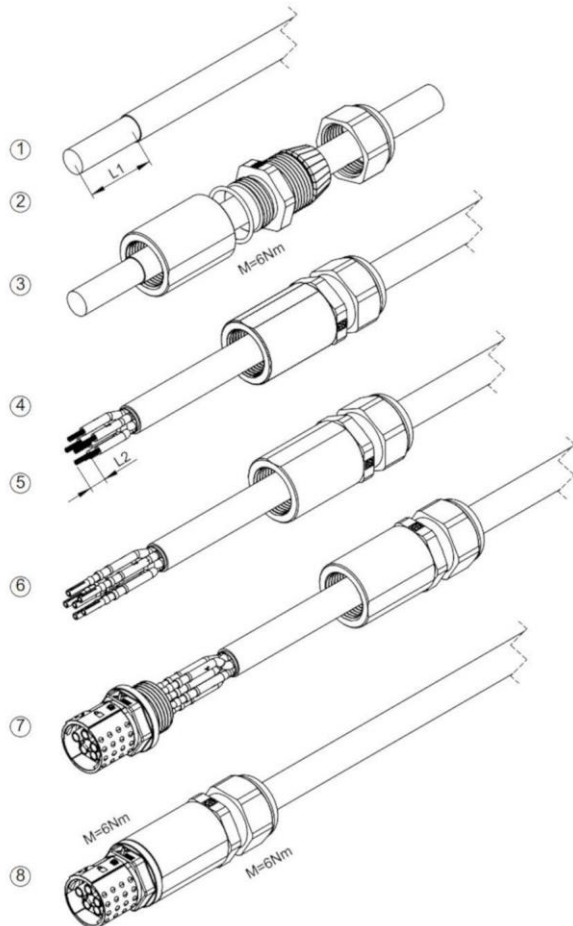
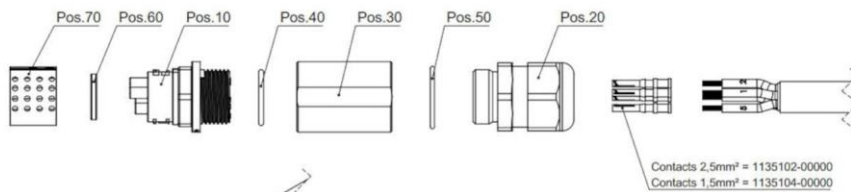


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## 6 Assembly instructions



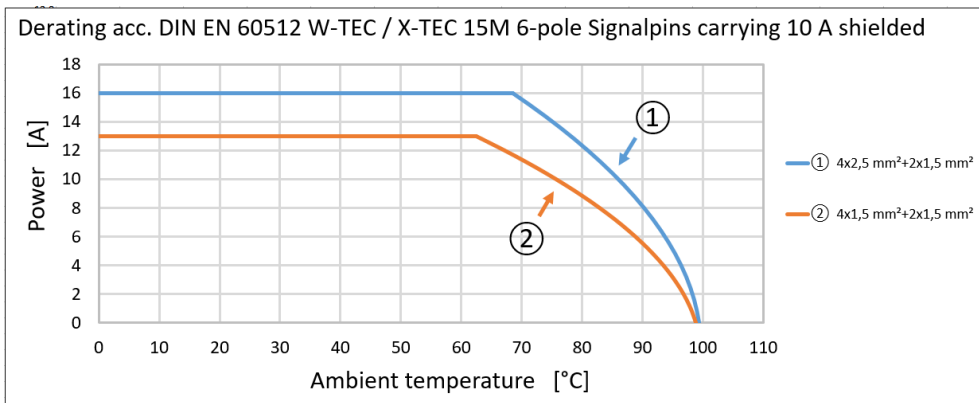
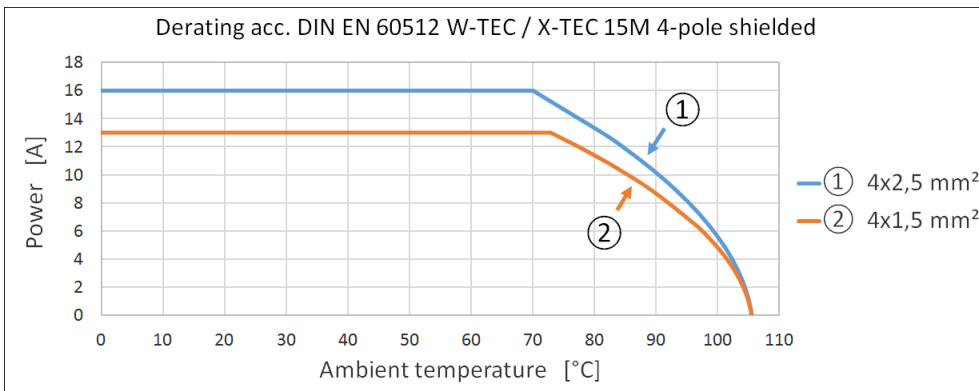
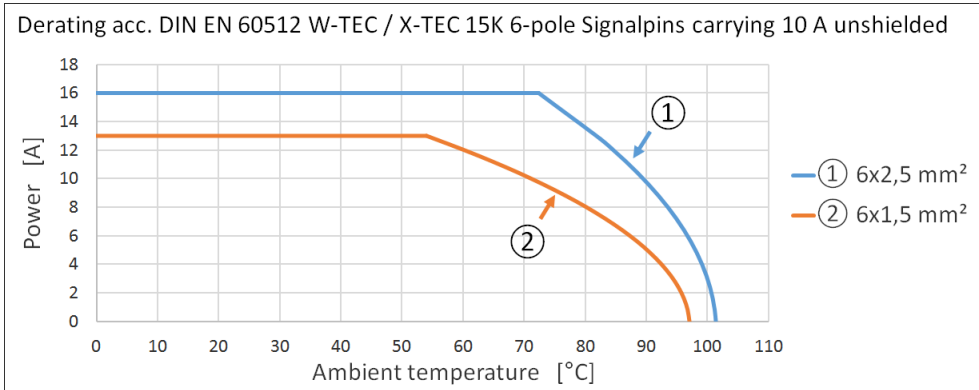
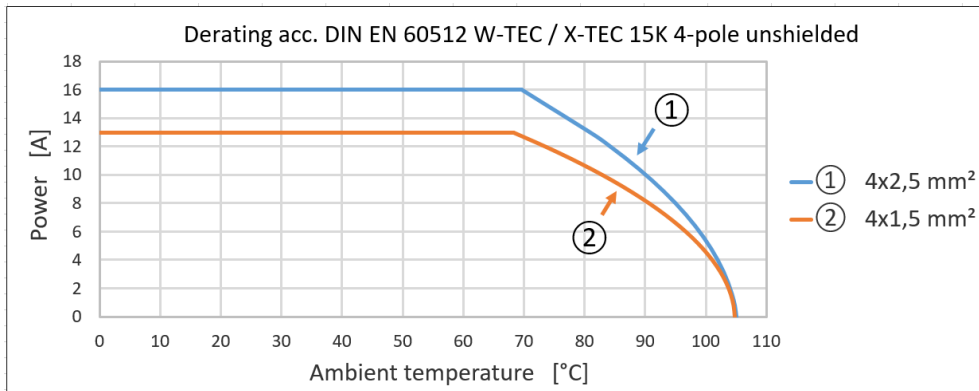
- Please ensure that the O-rings are fitted in the correct position!
- ① Remove cable sheath  $L1 = 50 \pm 1\text{mm}$
  - ② Remove taped wrapping, core and filler elements
  - ③ Fit Pos.30, Pos.50 and Pos.20 together
  - ④ Screw Pos.20 into Pos.30
  - ⑤ Strip strand ends  $L2 = 8\text{mm}$  (for 1,5mm<sup>2</sup>) and 6mm (for 2,5mm<sup>2</sup>)
  - ⑥ Crimp contacts -> crimping tool LQ order no.: 1148172-00000
  - ⑦ Guide contacts into Pos.10 and engage (Note contact assignment/numbering)
  - ⑧ Screw all components together -> Note sequence and torques


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## 7 Derating



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## 8 Appendix Nomenclature

X - T E C 1 5 K - P C S - X X X - 6 1 4 1 4 - X X - W X -

### Family designation

- X-TEC
  - Panel mounted connectors
  - Power distribution box

### Connector Size

- 15
- 12

### Connector type

- K – plastic connector
- M – metal connector

### Male/Female contactor type

- T – threaded body
- F – rectangular flange
- P – threaded body including plastic coupling nut
- M – threaded body including metallic coupling nut
- B – threaded body including reducing bush
- C – T-Splitter (one inlet)
- D – 4-way splitter, with top-gated outlets (four outlets)
- E – 4-way splitter, with side-gated outlets (four outlets)
- X – No male/female connector
- K – threaded body including screwed coupling and cable gland (field-assembled construction)

### Male/Female contact type

- C – crimp
- X – No male/female connector
- T – No Male/female connector, additional terminal/ferrule crimped to wire ends, resistance welded wire ends, single wire lengths may be varying (Female Panel mounted)

### Male/Female contact plating

- S – Silver
- X – No male/female connector

### Cable Screen

- X – stranded copper conductors not shielded

### Cable Type

- W – stranded copper conductors

### Cable gland size

- XX – no cable gland

### Signal contact terminal cross-section

- 14 – AWG 14
- 16 – AWG 16
- XX – no signal contacts

### Power contact terminal cross-section

- 14 – AWG 14
- 16 – AWG 16

### Number of poles

- 4 – 4 poles
- 6 – 6 poles

1 1 2 4 2 7 8 - 0 0 0 1 4

### internal description, where xxxxxxx can be 7 digit alphanumeric


internal description, where xxxxxxx can be 7 digit alphanumeric

- Ferrules with insulating collar
- Uninsulated ferrules
- Terminal Connectors,
- **Uninsulated Terminal Connectors,**
- dust caps

and additional features which may be

- welded/compacted stranded wire ends
- additional stripping of wire
- additional stripping of cord isolation
- length difference between power, ground and signal wires

five digit number describing cable length in cm

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