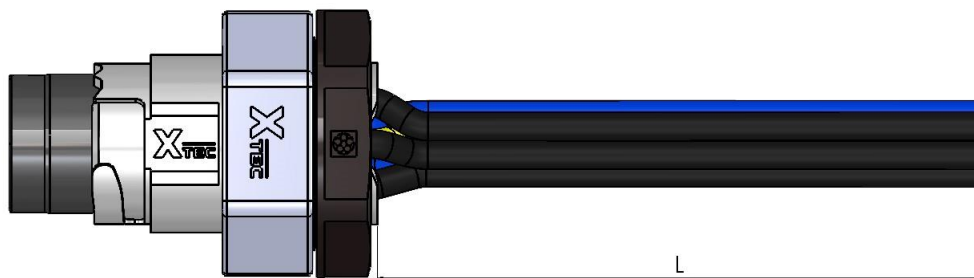


1 Datasheet X-TEC 15M Screw-in-Male 6x1.5



source

destination

xxxxx (see order no:) stands for the length in cm.


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	
Manufacturer Article Number	1155421	
Application standards	PERFORMANCE	
UL Mark	UL Listed	
eCl@ss 9.0	27-44-03-90	
country of origin	DE	

08.11.2023-RSP	Adaptation Eclass	12.0		UL- Identification	Order no.	
26.10.2023-RSP	Adaptation Eclass	11.0		X-TEC 15M-PCS-XXX-61616-XX-WX	1155421-xxxxx	
24.08.2023-RSP	Rated current main wires *	10.0		Designation	Datasheet	
07.08.2023-RSP	New: IEC 61076-2-116	9.0		X-TEC 15M Screw-in-Male 6x1.5	Created	Page
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3.2 Electrical properties

DESIGNATION	VALUE	UNIT
rated current	13	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	Yes	
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) 1,2mm leading	
neutral conductor	No	
Degree of protection by encapsulation according to IEC 60529	No	
Reference to standard	DIN EN 61984 / IEC 61076-2-116	

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
Electrical connection	120	g/m
Connector Source	45,3	g


3.4 Approval

DESIGNATION	VALUE	UNIT
UL.CCN **	PVVA.E486020	
CSA.CCN **	PVVA7.E486020	
CCC	No	
GOST-R	No	
CE Nomenclature	X-TEC 15M-PCS-XXX-61616-XX-WX	

3.4.1 Approvals Supplements

** Suitable For Use On a Circuit Capable Of Delivering Not More Than 5,000 rms Symmetrical Amperes, 600V Maximum.

When Protected by Time Delay (See Table Below) Class Fuses:

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Cat. No(s).	Time Delay (TD) /Non-time delay (NTD)	Fuse Class	Fuse Current Rating (A)	SCCR (kA)	Voltage V AC
All rated 13 A	TD	RK5	25	5	600
	TD	J	60	50	600
	TD	CC	30	50	600
All rated 16 A	TD	RK5	35	5	600
	TD	J	60	50	600
	TD	CC	30	50	600

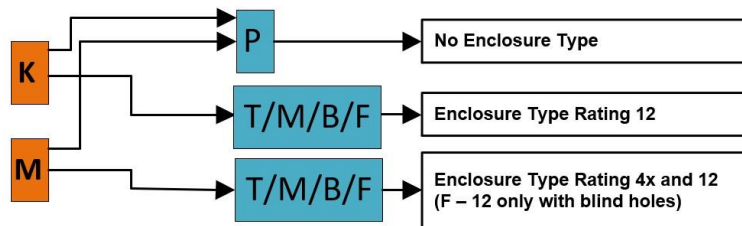
Suitable For Use On A Circuit Capable Of Delivering Not More Than 50kA rms Symmetrical Amperes, 480 Vac Maximum, When Protcted By A Circuit Breaker Rated Not More Than 16A, Having An Interrupting Rating Not Less Than 50kA rms Symmetrical Amperes, 480Vac Maximum.

Circuit Breakers:

Cat. No(s).	Model/Type	Manufacturer / UL File	Current Rating (A)	SCCR (kA)	Voltage V AC
All	Any	Any / Any	16	50	480Y/277 Vac

3.4.2 Enclosure Type Rating


X - T E C 1 5 - - - X X X ...



X - T E C 1 5 - X X X - - - ...

3.5 Thermal properties

DESIGNATION	VALUE	UNIT
Max. operating temperature	90	°C
Fixed temperature range (LLT-ULT)	-35 ... +90	°C

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3.6 UL Ratings

DESIGNATION	VALUE	UNIT
Reference to UL standard	2237	
max. connectable conductor size (AWG/KCMIL)	16	AWG
Auxiliary wires Wire gauge	16	AWG
Enclosure Type Rating	No	
flame-resistant (in accordance with UL94)	HB	

3.7 Other features

DESIGNATION	VALUE	UNIT
RoHS compliant	2011/65/EU under exception III 6c	
REACH SVHC substances	Lead (CAS 7439-92-1, EC 231-100-4)	
halogen-free	No	
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

1	■	BK1	1,5 mm ²
2	■	BK2	1,5 mm ²
3	■	BK3	1,5 mm ²
⊕	■	GN-YE	1,5 mm ²
A	■	BU4	1,5 mm ²
B	■	BU5	1,5 mm ²

4.2 electrical assembly

DESIGNATION	VALUE	UNIT
Main wires number	4	
max. connectable conductor cross-section	1,5	mm ²
External cable diameter, max.	3,1	mm
Auxiliary wires Number	2	
Auxiliary wires Wire gauge	1,5	mm ²
max. auxiliary core diameter incl. insulation D	3,1	mm
coat colour main wires	black/green-yellow	
coat colour auxiliary wires	blue	
Identification of main wires	consecutive number imprint (1-3)	
Identification of auxiliary wires	continuous letter printing (A-B)	
Core insulation material	PVC	

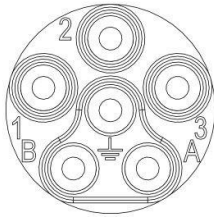
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5 Construction Source

5.1 Pole diagram Source



5.2 Construction Source

DESIGNATION	VALUE	UNIT
Size of construction	X-TEC 15	
Type of interlock	Quick release fastener	
Execution	Screw-in male	
Number of poles	6	
Construction form of the plug connector	straight	
Material Seals	NBR	
production type	mounted	
material of housing	Zinc, nickel-plated	
Material Insulating body	PA 6.6	
Conductor connection method	Crimp connection	
Material Contacts	Copper alloy, hard silver plated	
contact resistance	<3	mOhm
Mechanical life Contacts	500	mating cycles
connectable wires	fine to finely stranded	
Degree of protection (IP), mounted	IP66/67	

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6 Mechanical representations

6.1 Schematic diagrams threaded

6.1.1 With plastic locknut

<p>X - T E C 1 5 K - P - - - X X X ...</p>	<p>X - T E C 1 5 K - X X X - P - - ...</p>
<p>X - T E C 1 5 M - P - - - X X X ...</p>	<p>X - T E C 1 5 M - X X X - P - - ...</p>

6.1.2 With metal locknut

<p>X - T E C 1 5 K - M - - - X X X ...</p>	<p>X - T E C 1 5 K - X X X - M - - ...</p>
<p>X - T E C 1 5 M - M - - - X X X ...</p>	<p>X - T E C 1 5 M - X X X - M - - ...</p>

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6.1.3 Without locknut

X - T E C 1 5 K - T _ _ - X X X ...	X - T E C 1 5 K - X X X - T _ _ ...
X - T E C 1 5 M - T _ _ - X X X ...	X - T E C 1 5 M - X X X - T _ _ ...

6.1.4 With reduction

X - T E C 1 5 K - B _ _ - X X X ...	X - T E C 1 5 K - X X X - B _ _ ...
X - T E C 1 5 M - B _ _ - X X X ...	X - T E C 1 5 M - X X X - B _ _ ...

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6.2 Drilling patterns for assembly

6.2.1 Threaded body plug

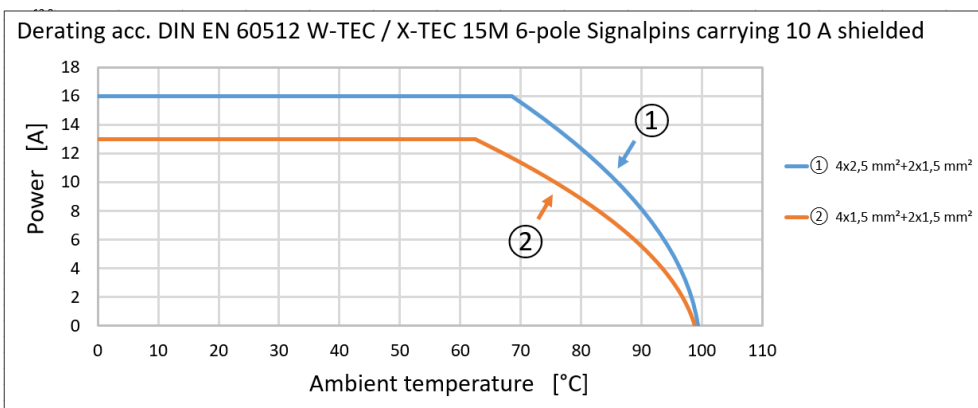
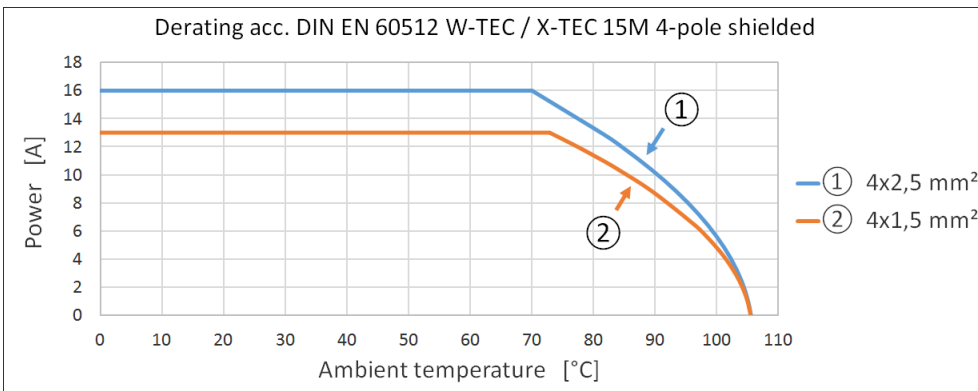
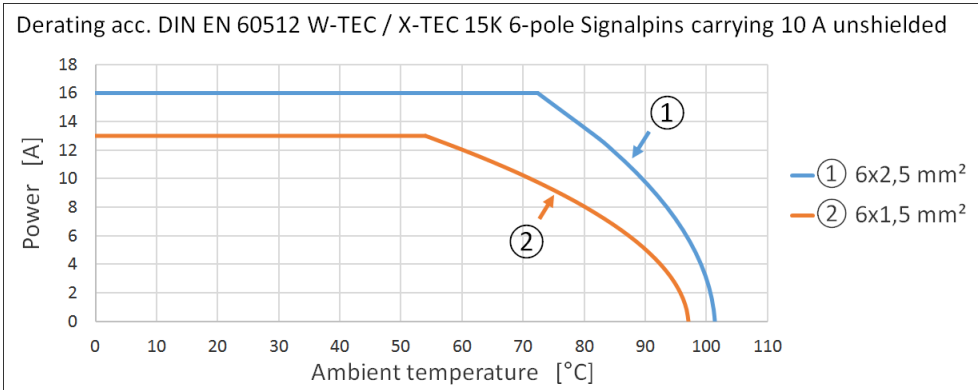
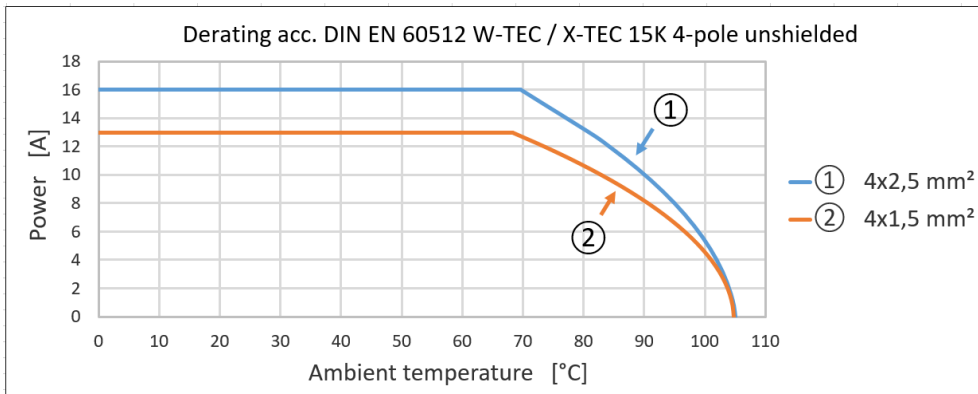
<p>X - T E C 1 5 - - - X X X ...</p> <p>K → T</p> <p>M → T</p> <p>X - T E C 1 5 - X X X - - - ...</p>	<p>M20x1.5 H6</p> <p>Ra max. 1.6</p> <p>A</p> <p>KXX=A max. 6.6mm MXX=A max. 2.0mm</p>
<p>X - T E C 1 5 - - - X X X ...</p> <p>K → B</p> <p>M → B</p> <p>X - T E C 1 5 - X X X - - - ...</p>	<p>M25x1.5 H6</p> <p>Ra max. 1.6</p> <p>A</p> <p>KXX=A max. 6.6mm MXX=A max. 2.0mm</p>
<p>X - T E C 1 5 - - - X X X ...</p> <p>K → T</p> <p>M → M</p> <p>X - T E C 1 5 - X X X - - - ...</p>	<p>Ø21 H12</p> <p>Ra max. 1.6</p> <p>A</p> <p>KXX=A max. 6.6mm MXX=A max. 2.0mm</p>


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7 Derating



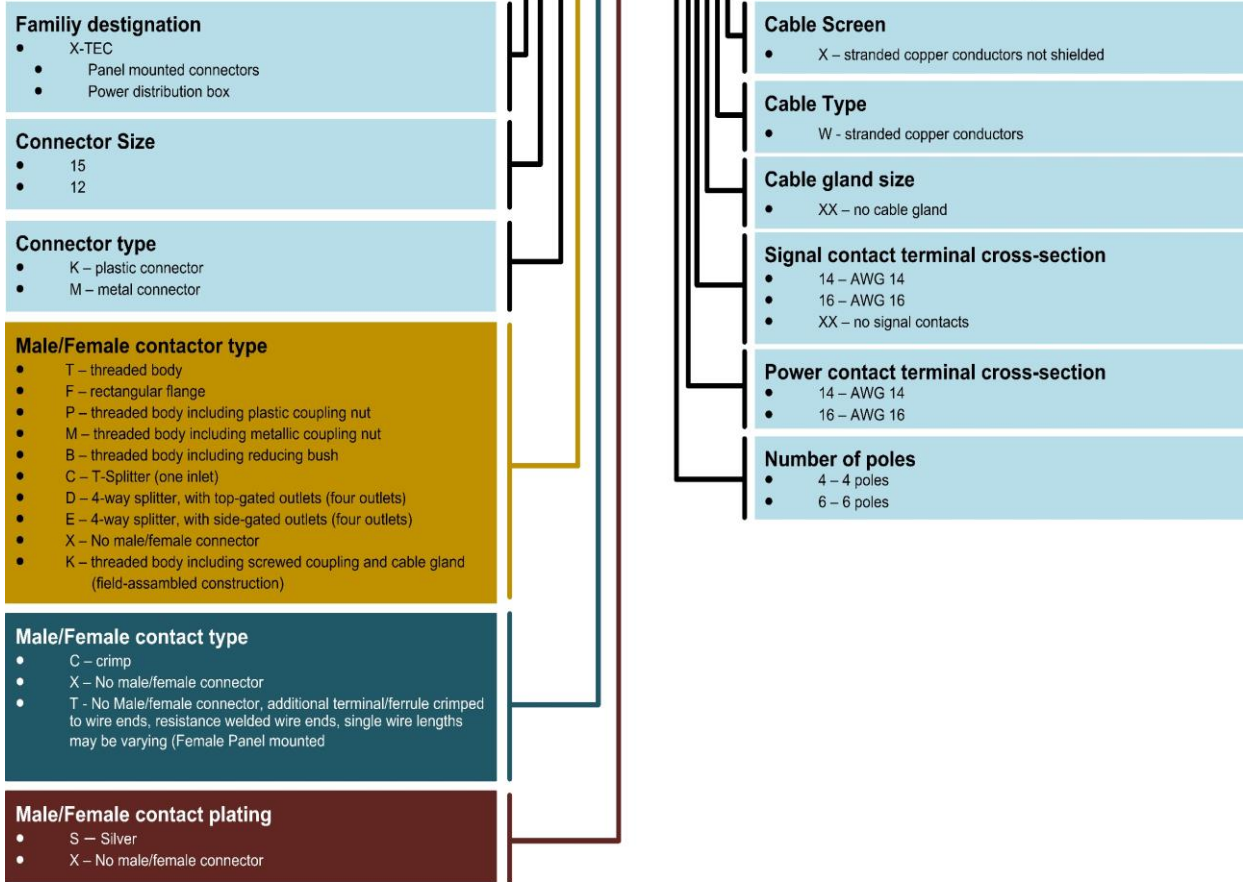
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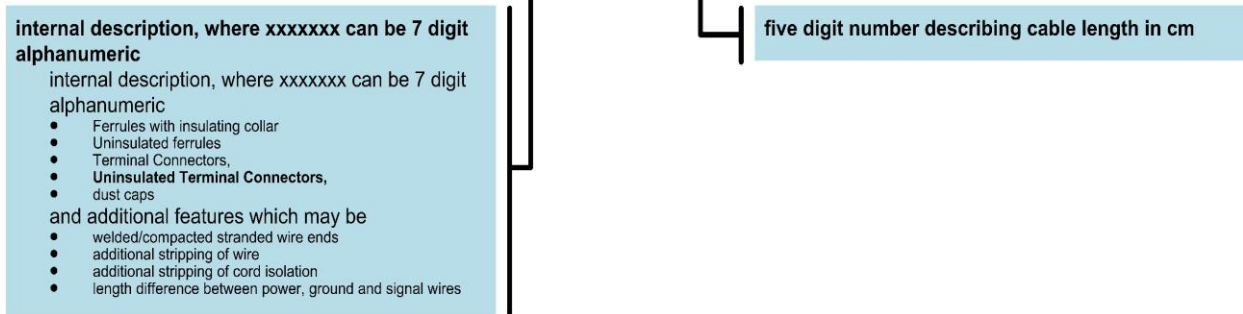
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8 Appendix Nomenclature

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



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



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