



**LQ GROUP**

Product  
Catalogue

**WE MAKE IT SIMPLE.**

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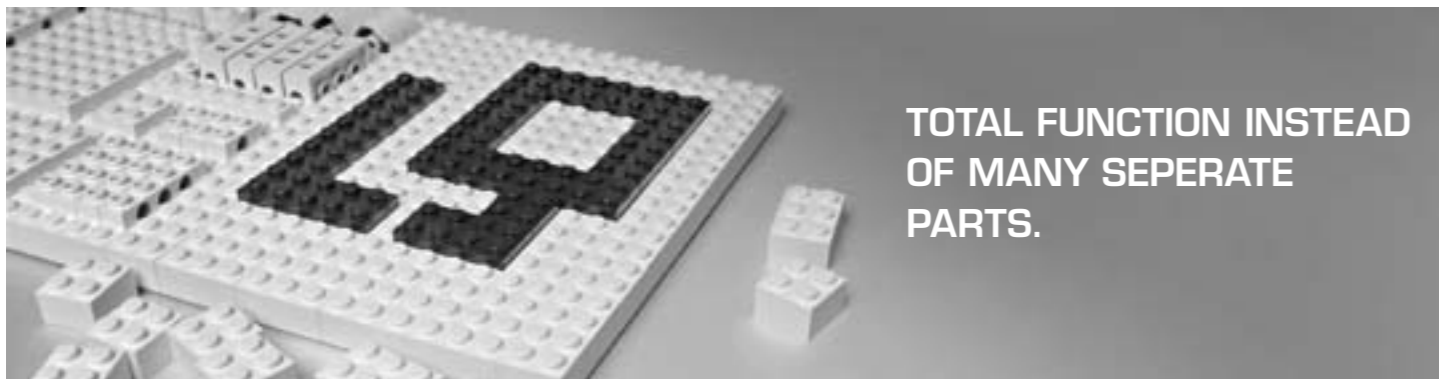
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### Disclaimer

Efficient overall solutions for control cabinet and installation technology.



The LQ Group develops and manufactures complete modular electromechanical equipment for the machine tool and plant engineering industry. All our solutions aim at helping our customers to simplify their electrical engineering.

**The principle: Put complete functions first, plug & play rather than fiddling about.**

On the control side, the aim is to have a clear set-up for the control cabinet and separate functional modules. On the installation side, the aim is to have a minimum number of universal cable types and ready-to-fit systems for use in the installation of equipment and machinery.

Our power and signal connectors ensure that connections can be made simply and quickly for everything from control systems to motors. Installation and commissioning of our system solutions is simple – just plug & play.



**PRODUCT SOLUTIONS.** Our **EnergyLink** module consists of our A-TEC modules, W-TEC cable assemblies and X-TEC circular plug-in connectors. All products are equipped with standardised interfaces and can be connected to each other without any problem.



**SYSTEM SOLUTIONS.** We look after your installation technology with our system solutions and deliver our units on a just-in-time basis ready to install with all the functional checks already carried out.



**MODULE SOLUTIONS.** The modular structure provides you with advantages in terms of time, quality and costs. Whether the requirement is for individual modules or a complete modular control cabinet: we make it simple.



With three production facilities around the world, in Germany, China and the USA, and our sales and service office in Switzerland, we are always on hand when you need us.



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**X**<sub>TEC 15</sub>

**W**<sub>TEC 15</sub>

## **M15 Power:**




The new market standard

**Maximum performance and minimum size.** Our X-TEC circular plug-in connector and our W-TEC 15 power cable assembly is currently the most powerful connector-and-cable system of its size on the market with 6 x 2.5 mm<sup>2</sup> continuous operation at 16 A on the power contacts and 10 A on the auxiliary contacts. In this we have created an excellent solution for varied applications.

Image	Name	Functional Description
	<b>X-TEC 15 Plug-in connector</b> _Screw thread _unshielded	_Plug-in connector 630 V with screw thread _For supply of 3-phase consumers up to 16 A, s.a. asynchronous motors up to 7.5 kW _With M20 thread and lock nut _X-TEC Quick release
	<b>X-TEC 15 Plug-in connector</b> _Flange _unshielded	_Plug-in connector 630 V with flange _For supply of 3-phase consumers up to 16 A, s.a. asynchronous motors up to 7.5 kW _X-TEC Quick release
	<b>X-TEC 15 Plug-in connector</b> _Screw thread _shielded	_Plug-in connector, 630 V, with an internal thread that can be positioned, for simple connector alignment _For supply of 3-phase consumers up to 16 A, s.a. asynchronous motors up to 7.5 kW _With M20 thread and lock nut _X-TEC Quick release
	<b>X-TEC 15 Plug-in connector</b> _Flange _shielded	_Plug-in connector 630 V with flange _For supply of 3-phase consumers up to 16 A, s.a. asynchronous motors up to 7.5 kW _X-TEC Quick release

Technical parameters											Variants	
Model	No. of poles	Voltage*1 (V) Pwr/Sig	Current*2 (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm <sup>2</sup>	Material-No.	Type
Screw thread straight M20 x 1.5	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +80°C	PA	UL 94 / HB	0.34 - 2.5	1122753 - 00000	Male
											1122742 - 00000	Female
Flange straight 25 x 25 mm	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +80°C	PA	UL 94 / HB	0.34 - 2.5	1122740 - 00000	Male
											1120817 - 00000	Female
Screw thread straight M20 x 1.5	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +80°C	Brazen, nickel plated	UL 94 / HB	0.34 - 2.5	1135002 - 00000	Male
											1135003 - 00000	Female
Flange straight 25 x 25 mm	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +80°C	Brazen, nickel plated	UL 94 / HB	0.34 - 2.5	1135000 - 00000	Male
											1135001 - 00000	Female

## W-TEC 15 \_6 x 2.5 mm<sup>2</sup> \_DA 4 \_unshielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power cable with straight connector</b> _6 x 2.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Basic cable same as extension cable _Colour black	UL
 	<b>W-TEC 15 Power cable with straight connector</b> _6 x 2.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour black	UL


Various lengths available at request

## W-TEC 15 \_6 x 2.5 mm<sup>2</sup> \_DA 4 \_unshielded

Technical parameters												Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	6 x 2.5	DA 4	UL 94 / HB	1119887 - 00100	1	Male/Female
												1119887 - 00200	2	Male/Female
												1119887 - 00300	3	Male/Female
												1119887 - 00500	5	Male/Female
												1119887 - 01000	10	Male/Female
straight	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	6 x 2.5	DA 4	UL 94 / HB	1124276 - 00100	1	Male
												1124276 - 00200	2	Male
												1124276 - 00300	3	Male
												1124276 - 00500	5	Male
												1124276 - 01000	10	Male
												1124257 - 00100	1	Female
												1124257 - 00200	2	Female
												1124257 - 00300	3	Female
												1124257 - 00500	5	Female
1124257 - 01000	10	Female												

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_6 x 2.5 mm<sup>2</sup> \_DA 4 \_unshielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power cable with angulated connector</b> _6 x 2.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour black	UL

Various lengths available at request




## W-TEC 15 \_6 x 2.5 mm<sup>2</sup> \_DA 4 \_unshielded

Technical parameters												Variants		
Model	No. of poles	Voltage <sup>*1</sup> (V) Pwr/Sig	Current <sup>*2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
angulated	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	6 x 2.5	DA 4	UL 94 / HB	1127207 - 00100	1	Female 90°R
												1127207 - 00200	2	Female 90°R
												1127207 - 00300	3	Female 90°R
												1127207 - 00500	5	Female 90°R
												1127207 - 01000	10	Female 90°R
												1127208 - 00100	1	Female 90°L
												1127208 - 00200	2	Female 90°L
												1127208 - 00300	3	Female 90°L
												1127208 - 00500	5	Female 90°L
												1127208 - 01000	10	Female 90°L

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)



## W-TEC 15 \_4 x 2.5 mm<sup>2</sup> \_DA 4 \_unshielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 2.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Basic cable same as extension cable _Colour black	UL
 	<b>W-TEC 15 Power cable with straight connector</b> _4 x 2.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour black	UL


Various lengths available at request

## W-TEC 15 \_4 x 2.5 mm<sup>2</sup> \_DA 4 \_unshielded

Technical parameters												Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight	3+PE	630 / -	16 / -	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	4 x 2.5	DA 4	UL 94 / HB	1133151 - 00100	1	Male/Female
												1133151 - 00200	2	Male/Female
												1133151 - 00300	3	Male/Female
												1133151 - 00500	5	Male/Female
												1133151 - 01000	10	Male/Female
straight	3+PE	630 / -	16 / -	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	4 x 2.5	DA 4	UL 94 / HB	1133054 - 00100	1	Male
												1133054 - 00200	2	Male
												1133054 - 00300	3	Male
												1133054 - 00500	5	Male
												1133054 - 01000	10	Male
												1133053 - 00100	1	Female
												1133053 - 00200	2	Female
												1133053 - 00300	3	Female
												1133053 - 00500	5	Female
1133053 - 01000	10	Female												

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_4 x 2.5 mm<sup>2</sup> \_DA 4 \_unshielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power cable with angulated connector</b> _4 x 2.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour black	UL




Various lengths available at request

## W-TEC 15 \_4 x 2.5 mm<sup>2</sup> \_DA 4 \_unshielded

Technical parameters												Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
angulated	3+PE	630 / -	16 / -	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	4 x 2.5	DA 0	UL 94 / HB	1133055 - 00100	1	Female 90°R
												1133055 - 00200	2	Female 90°R
												1133055 - 00300	3	Female 90°R
												1133055 - 00500	5	Female 90°R
												1133055 - 01000	10	Female 90°R
												1133056 - 00100	1	Female 90°L
												1133056 - 00200	2	Female 90°L
												1133056 - 00300	3	Female 90°L
												1133056 - 00500	5	Female 90°L
												1133056 - 01000	10	Female 90°L

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_4 x 1.5 mm<sup>2</sup> \_DA 4 \_unshielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 1.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _Basic cable same as extension cable _Colour black	UL
 	<b>W-TEC 15 Power cable with straight connector</b> _4 x 1.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _One-side overmolded, cable end cut off smooth _Colour black	UL


Various lengths available at request

## W-TEC 15 \_4 x 1.5 mm<sup>2</sup> \_DA 4 \_unshielded

Technical parameters												Variants		
Model	No. of poles	Voltage <sup>*1</sup> (V) Pwr/Sig	Current <sup>*2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight	3+PE	630 / -	13 / -	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	4 x 1.5	DA 4	UL 94 / HB	1131256 - 00100	1	Male / Female
												1131256 - 00200	2	Male / Female
												1131256 - 00300	3	Male / Female
												1131256 - 00500	5	Male / Female
												1131256 - 01000	10	Male / Female
straight	3+PE	630 / -	13 / -	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	4 x 1.5	DA 4	UL 94 / HB	1131257 - 00100	1	Male
												1131257 - 00200	2	Male
												1131257 - 00300	3	Male
												1131257 - 00500	5	Male
												1131257 - 01000	10	Male
												1131258 - 00100	1	Female
												1131258 - 00200	2	Female
												1131258 - 00300	3	Female
												1131258 - 00500	5	Female
1131258 - 01000	10	Female												

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_4 x 1.5 mm<sup>2</sup> \_DA 4 \_unshielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power cable with angulated connector</b> _4 x 1.5 mm <sup>2</sup> _unshielded	_Assembled cable _For supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _One-side overmolded, cable end cut off smooth _Colour black	UL




Various lengths available at request

## W-TEC 15 \_4 x 1.5 mm<sup>2</sup> \_DA 4 \_unshielded

Technical parameters												Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
angulated	3+PE	630 / -	13 / -	IP 67	≥ 500	3	-20°C up to +60°C flexible	PUR	4 x 1.5	DA 4	UL 94 / HB	1131259 - 00100	1	Female 90°R
												1131259 - 00200	2	Female 90°R
												1131259 - 00300	3	Female 90°R
												1131259 - 00500	5	Female 90°R
												1131259 - 01000	10	Female 90°R
												1131260 - 00100	1	Female 90°L
												1131260 - 00200	2	Female 90°L
												1131260 - 00300	3	Female 90°L
												1131260 - 00500	5	Female 90°L
1131260 - 01000	10	Female 90°L												

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_unconnected cable end \_unshielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Screw thread unconnected cable end</b> _4 x 1.5 mm² _unshielded	_Power cable for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _Colour black/green-yellow	UL
	<b>W-TEC 15 Screw thread unconnected cable end</b> _4 x 2.5 mm² _unshielded	_Power cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	UL
	<b>W-TEC 15 Screw thread unconnected cable end</b> _6 x 2.5 mm² _unshielded	_Power cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	UL




Various lengths available at request

## W-TEC 15 \_unconnected cable end \_unshielded

Technical parameters												Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm²	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight Screw connection M 20 x 1.5	3+PE	630 / -	13 / -	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	4 x 1.5	DA 0	UL 94 / HB	1131781 - 00015	0,15	Male
												1131781 - 00025	0,25	Male
straight Screw connection M 20 x 1.5	3+PE	630 / -	16 / -	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	4 x 2.5	DA 0	UL 94 / HB	1131959 - 00025	0.25	Male
straight Screw connection M 20 x 1.5	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	6 x 2.5	DA 0	UL 94 / HB	1124278 - 00025	0.25	Male
												1124278 - 00050	0.5	Male
												1124278 - 00100	1.0	Male

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_unconnected cable end \_unshielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Flange unconnected cable end</b> _6 x 2.5 mm <sup>2</sup> _unshielded	_Power cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	UL
	<b>W-TEC 15 Screw thread unconnected cable end</b> _6 x 2.5 mm <sup>2</sup> _unshielded	_Energy outlet from control cabinet for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	UL
	<b>W-TEC 15 Flange unconnected cable end</b> _6 x 2.5 mm <sup>2</sup> _unshielded	_Energy outlet from control cabinet for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	UL


Various lengths available at request

## W-TEC 15 \_unconnected cable end \_unshielded

Technical parameters												Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight Mounting Flange 25 x 25 mm	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	6 x 2.5	DA 0	UL 94 / HB	1124258 - 00025	0.25	Male
												1124258 - 00050	0.5	Male
												1124258 - 00100	1.0	Male
straight Screw connection M 20 x 1.5	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	6 x 2.5	DA 0	UL 94 / HB	1124279 - 00025	0.25	Female
												1124279 - 00050	0.5	Female
												1124279 - 00100	1.0	Female
straight Mounting Flange 25 x 25 mm	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	6 x 2.5	DA 0	UL 94 / HB	1124277 - 00025	0.25	Female
												1124277 - 00050	0.5	Female
												1124277 - 00100	1.0	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)




## Power Distributor passive 2xM15 T

Image	Name	Functional Description
	<b>Power Distributor passive 2xM15 T</b>	<p>_ The purpose of the distributor is to provide a means of creating e.g. a daisy-chain connection to supply 3-phase consumers up to 16 A, power buses and asynchronous motors up to 7.5kW.</p> <p>_Colour black</p>

## Power Distributor passive 2xM15 T

Technical parameters											
Model	No. of poles	Voltage* 1 (V) Pwr/Sig	Current* 2 (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Internal Structure Ø in mm <sup>2</sup>	Material-No.
Distributor 400 V	3+PE+2	630 / 63	16 / 10	IP 67	≥ 100	3	-30°C bis +70°C	Hotmelt black	UL 94 / HB	6 x 2,5 mm <sup>2</sup>	1145373 - 00000

## W-TEC 15 \_4 x 2.5 + 2 x 1.5 mm<sup>2</sup> \_DA 4 \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Basic cable same as extension cable _Colour orange	-
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-

Various lengths available at request



## W-TEC 15 \_4 x 2.5 + 2 x 1.5 mm<sup>2</sup> \_DA 4 \_shielded

Technical parameters													Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-35°C up to +70°C	PUR	4 x 2.5 + 2 x 1.5	shielded	DA 4	UL 94 / HB	1135026 - 00100	1	Male/Female
													1135026 - 00200	2	Male/Female
													1135026 - 00300	3	Male/Female
													1135026 - 00500	5	Male/Female
													1135026 - 01000	10	Male/Female
straight	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-35°C up to +70°C	PUR	4 x 2.5 + 2 x 1.5	shielded	DA 4	UL 94 / HB	1135027 - 00100	1	Male
													1135027 - 00200	2	Male
													1135027 - 00300	3	Male
													1135027 - 00500	5	Male
													1135027 - 01000	10	Male
straight	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-35°C up to +70°C	PUR	4 x 2.5 + 2 x 1.5	shielded	DA 4	UL 94 / HB	1135028 - 00100	1	Female
													1135028 - 00200	2	Female
													1135028 - 00300	3	Female
													1135028 - 00500	5	Female
													1135028 - 01000	10	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)



## W-TEC 15 \_4 x 2.5 + 2 x 1.5 mm<sup>2</sup> \_DA 4 \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power Cable with angulated connector</b> _4 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-
	<b>W-TEC 15 Power cable with angulated connector</b> _4 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-




Various lengths available at request

## W-TEC 15 \_4 x 2.5 + 2 x 1.5 mm<sup>2</sup> \_DA 4 \_shielded

Technical parameters													Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m	Type
angulated	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-35°C up to +70°C	PUR	4 x 2.5 + 2 x 1.5	shielded	DA 4	UL 94 / HB	1135029 - 00100	1	Female
													1135029 - 00200	2	Female
													1135029 - 00300	3	Female
													1135029 - 00500	5	Female
													1135029 - 01000	10	Female
angulated	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-35°C up to +70°C	PUR	4 x 2.5 + 2 x 1.5	shielded	DA 4	UL 94 / HB	1135029 - 00100	1	Female
													1135029 - 00200	2	Female
													1135029 - 00300	3	Female
													1135029 - 00500	5	Female
													1135029 - 01000	10	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_4 x 2.5 mm<sup>2</sup> \_DA 4 \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power Cable with straight connector</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Basic cable same as extension cable _Colour orange	-
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-



Various lengths available at request

## W-TEC 15 \_4 x 2.5 mm<sup>2</sup> \_DA 4 \_shielded

Technical parameters													Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight	3 + PE	630 / -	16 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 2.5	shielded	DA 4	UL 94 / HB	1135021 - 00100	1	Male/Female
													1135021 - 00200	2	Male/Female
													1135021 - 00300	3	Male/Female
													1135021 - 00500	5	Male/Female
													1135021 - 01000	10	Male/Female
straight	3 + PE	630 / -	16 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 2.5	shielded	DA 4	UL 94 / HB	1135022 - 00100	1	Male
													1135022 - 00200	2	Male
													1135022 - 00300	3	Male
													1135022 - 00500	5	Male
													1135022 - 01000	10	Male
straight	3 + PE	630 / -	16 A / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 2.5	shielded	DA 4	UL 94 / HB	1135023 - 00100	1	Female
													1135023 - 00200	2	Female
													1135023 - 00300	3	Female
													1135023 - 00500	5	Female
													1135023 - 01000	10	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_4 x 2.5 mm<sup>2</sup> \_DA 4 \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power cable with angulated connector</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-
	<b>W-TEC 15 Power cable with angulated connector</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-




Various lengths available at request

## W-TEC 15 \_4 x 2.5 mm<sup>2</sup> \_DA 4 \_shielded

Technical parameters													Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m	Type
angulated	3 + PE	630 / -	16 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 2.5	shielded	DA 4	UL 94 / HB	1135024 - 00100	1	Female
													1135024 - 00200	2	Female
													1135024 - 00300	3	Female
													1135024 - 00500	5	Female
													1135024 - 01000	10	Female
angulated	3 + PE	630 / -	16 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 2.5	shielded	DA 4	UL 94 / HB	1135025 - 00100	1	Female
													1135025 - 00200	2	Female
													1135025 - 00300	3	Female
													1135025 - 00500	5	Female
													1135025 - 01000	10	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_4 x 1.5 mm<sup>2</sup> \_DA 4 \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power Cable with straight connector</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _Basic cable same as extension cable. _Colour orange	-
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-
	<b>W-TEC 15 Power cable with straight connector</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-



Various lengths available at request

## W-TEC 15 \_4 x 1.5 mm<sup>2</sup> \_DA 4 \_shielded

Technical parameters													Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 1.5	shielded	DA 4	UL 94 / HB	1135016 - 00100	1	Male/Female
													1135016 - 00200	2	Male/Female
													1135016 - 00300	3	Male/Female
													1135016 - 00500	5	Male/Female
													1135016 - 01000	10	Male/Female
straight	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 1.5	shielded	DA 4	UL 94 / HB	1135017 - 00100	1	Male
													1135017 - 00200	2	Male
													1135017 - 00300	3	Male
													1135017 - 00500	5	Male
													1135017 - 01000	10	Male
straight	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 1.5	shielded	DA 4	UL 94 / HB	1135018 - 00100	1	Female
													1135018 - 00200	2	Female
													1135018 - 00300	3	Female
													1135018 - 00500	5	Female
													1135018 - 01000	10	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_4 x 1.5 mm<sup>2</sup> \_DA 4 \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Power Cable with angulated connector</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-
	<b>W-TEC 15 Power cable with angulated connector</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Assembled cable for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _One-side overmolded, cable end cut off smooth _Colour orange	-





Various lengths available at request

## W-TEC 15 \_4 x 1.5 mm<sup>2</sup> \_DA 4 \_shielded

Technical parameters													Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m	Type
angulated	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 1.5	shielded	DA 4	UL 94 / HB	1135019 - 00100	1	Female
													1135019 - 00200	2	Female
													1135019 - 00300	3	Female
													1135019 - 00500	5	Female
													1135019 - 01000	10	Female
angulated	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-50 °C up to +80 °C fixed	PUR	4 x 1.5	shielded	DA 4	UL 94 / HB	1135020 - 00100	1	Female
													1135020 - 00200	2	Female
													1135020 - 00300	3	Female
													1135020 - 00500	5	Female
													1135020 - 01000	10	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_unconnected cable end \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Screw thread unconnected cable end</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Power cable for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _Colour black/green-yellow	-
	<b>W-TEC 15 Screw thread unconnected cable end</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Energy outlet from control cabinet for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _Colour black/green-yellow	-
	<b>W-TEC 15 Flange unconnected cable end</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Power cable for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _Colour black/green-yellow	-
	<b>W-TEC 15 Flange unconnected cable end</b> _4 x 1.5 mm <sup>2</sup> _shielded	_Energy outlet from control cabinet for supply of 3-phase consumers up to 13 A, power bus as well as asynchronous motors up to 5.5 kW _Colour black/green-yellow	-





Various lengths available at request

## W-TEC 15 \_unconnected cable end \_shielded

Technical parameters												Variants		
Model	No. of poles	Voltage <sup>*1</sup> (V) Pwr/Sig	Current <sup>*2</sup> (A) Pwr/Sig	Protection Class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight Screw connection M 20 x 1.5	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	4 x 1.5	DA 0	UL 94 / HB	1135004 - 00025	0.25	Male
												1135004 - 00050	0.5	Male
												1135004 - 00100	1	Male
straight Screw connection M 20 x 1.5	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	4 x 1.5	DA 0	UL 94 / HB	1135005 - 00025	0.25	Female
												1135005 - 00050	0.5	Female
												1135005 - 00100	1	Female
straight Mounting Flange 25 x 25 mm	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	4 x 1.5	DA 0	UL 94 / HB	1135006 - 00025	0.25	Male
												1135006 - 00050	0.5	Male
												1135006 - 00100	1	Male
straight Mounting Flange 25 x 25 mm	3 + PE	630 / -	13 / -	IP 67	≥ 500	3	-20°C up to +70°C fixed	PVC	4 x 1.5	DA 0	UL 94 / HB	1135007 - 00025	0.25	Female
												1135007 - 00050	0.5	Female
												1135007 - 00100	1	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_unconnected cable end \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Screw thread unconnected cable end</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Power cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow	-
	<b>W-TEC 15 Screw thread unconnected cable end</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Energy outlet from control cabinet for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow	-
	<b>W-TEC 15 Flange unconnected cable end</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Power cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow	-
	<b>W-TEC 15 Flange unconnected cable end</b> _4 x 2.5 mm <sup>2</sup> _shielded	_Energy outlet from control cabinet for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow	-





Various lengths available at request

## W-TEC 15 \_unconnected cable end \_shielded

Technical parameters												Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection Class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight Screw connection M 20 x 1.5	3 + PE	630 / -	16 A / -	IP 67	≥ 500	3	-20 °C up to +70 °C fixed	PVC	4 x 2.5	DA 0	UL 94 / HB	1135008 - 00025	0.25	Male
												1135008 - 00050	0.5	Male
												1135008 - 00100	1	Male
straight Screw connection M 20 x 1.5	3 + PE	630 / -	16 A / -	IP 67	≥ 500	3	-20 °C up to +70 °C fixed	PVC	4 x 2.5	DA 0	UL 94 / HB	1135009 - 00025	0.25	Female
												1135009 - 00050	0.5	Female
												1135009 - 00100	1	Female
straight Mounting Flange  25 x 25 mm	3 + PE	630 / -	16 / -	IP 67	≥ 500	3	-20 °C up to +70 °C fixed	PVC	4 x 2.5	DA 0	UL 94 / HB	1135010 - 00025	0.25	Male
												1135010 - 00050	0.5	Male
												1135010 - 00100	1	Male
straight Mounting Flange  25 x 25 mm	3 + PE	630 / -	16 / -	IP 67	≥ 500	3	-20 °C up to +70 °C fixed	PVC	4 x 2.5	DA 0	UL 94 / HB	1135011 - 00025	0.25	Female
												1135011 - 00050	0.5	Female
												1135011 - 00100	1	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 15 \_unconnected cable end \_shielded

Image	Name	Functional Description	Permissions
	<b>W-TEC 15 Screw thread unconnected cable end</b> _6 x 2.5 mm <sup>2</sup> _shielded	_Power cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	-
	<b>W-TEC 15 Screw thread unconnected cable end</b> _6 x 2.5 mm <sup>2</sup> _shielded	_Energy outlet from control cabinet for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	-
	<b>W-TEC 15 Flange unconnected cable end</b> _6 x 2.5 mm <sup>2</sup> _shielded	_Power cable for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	-
	<b>W-TEC 15 Flange unconnected cable end</b> _6 x 2.5 mm <sup>2</sup> _shielded	_Energy outlet from control cabinet for supply of 3-phase consumers up to 16 A, power bus as well as asynchronous motors up to 7.5 kW _Colour black/green-yellow/dark-blue	-

Various lengths available at request













## W-TEC 15 \_unconnected cable end \_shielded

Technical parameters												Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection Class (locked)	Mating cycles	Pollution degree	Temperature range	Cable sheath	Cable design in mm <sup>2</sup>	Dynamics	Fire protection class	Material-No.	Length in m	Type
straight Screw connection M 20 x 1.5	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20 °C up to +70 °C fixed	PVC	6 x 2.5	DA 0	UL 94 / HB	1135012 - 00025	0.25	Male
												1135012 - 00050	0.5	Male
												1135012 - 00100	1	Male
straight Screw connection M 20 x 1.5	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20 °C up to +70 °C fixed	PVC	6 x 2.5	DA 0	UL 94 / HB	1135013 - 00025	0.25	Female
												1135013 - 00050	0.5	Female
												1135013 - 00100	1	Female
straight Mounting Flange 25 x 25 mm	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20 °C up to +70 °C fixed	PVC	6 x 2.5	DA 0	UL 94 / HB	1135014 - 00025	0.25	Male
												1135014 - 00050	0.5	Male
												1135014 - 00100	1	Male
straight Mounting Flange 25 x 25 mm	3+PE+2	630 / 63	16 / 10	IP 67	≥ 500	3	-20 °C up to +70 °C fixed	PVC	6 x 2.5	DA 0	UL 94 / HB	1135015 - 00025	0.25	Female
												1135015 - 00050	0.5	Female
												1135015 - 00100	1	Female

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)



## X-TEC Contacts

Image	Name	Coating	Material-No.
<b>FOR X-TEC 15</b>			
	1.6 mm Contact Female for 0,37 mm²	gold plated	1100890 - 00000
		silver plated	1105983 - 00000
	1.6 mm Contact Male for 0,37 mm²	gold plated	1100889 - 00000
		silver plated	1104461 - 00000
	1.6 mm Contact Female for 0.5 mm²	gold plated	1105548 - 00000
		silver plated	1104462 - 00000
	1.6 mm Contact Male for 0.5 mm²	gold plated	1100887 - 00000
		silver plated	1104460 - 00000
	1.6 mm Contact Female for 0.75 mm²	gold plated	1121665 - 00000
		silver plated	1100114 - 00000
	1.6 mm Contact Male for 0.75 mm²	gold plated	1121666 - 00000
		silver plated	1106074 - 00000
	1.6 mm Contact Female for 1.0 mm²	gold plated	1110773 - 00000
		silver plated	1104711 - 00000
	1.6 mm Contact Male for 1.0 mm²	gold plated	1110774 - 00000
		silver plated	1104459 - 00000
	1.6 mm Contact Female for 1.5 mm²	gold plated	1102712 - 00000
		silver plated	1135104 - 00000
	1.6 mm Contact Male for 1.5 mm²	gold plated	1102713 - 00000
		silver plated	1135103 - 00000
	1.6 mm Contact Female for 2.5 mm²	gold plated	1121667 - 00000
		silver plated	1135102 - 00000
	1.6 mm Contact Male for 2.5 mm²	gold plated	1121668 - 00000
		silver plated	1135101 - 00000






## **X-TEC Circular plug-in connector:**

Compact and powerful – 16 up to 60 A

**No more interface problems!** Our new line of innovative power and signal connectors for all standard servo, asynchronous and three-phase motors is the solution to your interface problems. Instead of needing numerous different connectors, now all you need is one. One universal connector for everything – from control systems to motors – regardless of manufacturer or brand.



## X-TEC 23 Power connector \_3+PE+5

Image	Name	Functional Description	Permissions
	<b>X-TEC 23 Power connector</b> _Straight _3+PE+5 _Metal	<p>_Power connector as plug-in connector for industrial use with quick release fastener and crimp junction</p> <p>_Junction of servo motors, asynchronous motors and 3-phase users</p> <p>_Simple 360° shield support through cap clamping</p> <p>_Colour coding after DESINA by coded ring</p>	<p>DIN EN 60664-1 (VDE 0110-1)</p> <p>DIN EN 61984 (VDE 0627)</p> <p>DIN EN 60529 (VDE 0470-1)</p> <p>UL: recognized</p>
	<b>X-TEC 23 Power connector</b> _Flange straight _3+PE+5 _Metal		
	<b>X-TEC 23 Power connector</b> _Flange angulated _3+PE+5 _Metal		

## X-TEC 23 Power connector \_3+PE+5

Technical parameters											Variants		
Model	No. of poles	Voltage*1 (V) Pwr/Sig	Current*2 (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm²	Material-No.	Type	Clamping range mm
straight	3+PE+5	630 / 250  UL/CSA 600 / 250	30 / 7	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	3.5 - 2.5 2.5 - 4.0 / 0.5 - 1.5	1116665 - 00000	Female	7.5 - 12.0
											1116671 - 00000	Male	7.5 - 12.0
											1116666 - 00000	Female	9.5 - 14.5
											1116672 - 00000	Male	9.5 - 14.5
											1116667 - 00000	Female	14.0 - 17.0
1116673 - 00000	Male	14.0 - 17.0											
straight	3+PE+5	630 / 250  UL/CSA 600 / 250	30 / 7	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	3.5 - 2.5 2.5 - 4.0 / 0.5 - 1.5	1116643 - 00000	Female	
											1116645 - 00000	Male	
angulated	3+PE+5	630 / 250  UL/CSA 600 / 250	30 / 7	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	3.5 - 2.5 2.5 - 4.0 / 0.5 - 1.5	1116650 - 00000	Female	Flange 25
											1116652 - 00000	Male	Flange 25
											1116651 - 00000	Female	Flange 28
											1116653 - 00000	Male	Flange 28


## X-TEC 23 Power connector \_3+PE+5

Image	Name	Functional Description	Permissions
	<b>X-TEC 23 Power connector</b> _Straight _3+PE+5 _Plastic	<p>_Power connector as plug-in connector for industrial use with quick release fastener and crimp junction</p> <p>_Junction of servo motors, asynchronous motors and 3-phase users</p> <p>_Simple 360° shield support through cap clamping</p> <p>_Colour coding after DESINA by coded ring</p>	<p>DIN EN 60664-1 (VDE 0110-1)</p> <p>DIN EN 61984 (VDE 0627)</p> <p>DIN EN 60529 (VDE 0470-1)</p> <p>UL: recognized</p>
	<b>X-TEC 23 Power connector</b> _Flange straight _3+PE+5 _Plastic		

## X-TEC 23 Power connector \_3+PE+5

Technical parameters											Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm <sup>2</sup>	Material-No.	Type	Clamping range mm
straight	3+PE+5	630 / 250  UL/CSA 600 / 250	30 / 7	IP 67	≥ 500	3	-20°C up to +130°C	PA	UL 94 / V0	3.5 - 2.5 2.5 - 4.0 / 0.5 -1.5	1116662 - 00000	Female	7.5 - 12.0
											1116668 - 00000	Male	7.5 - 12.0
											1116663 - 00000	Female	9.5 - 14.5
											1116669 - 00000	Male	9.5 - 14.5
											1116664 - 00000	Female	14.0 - 17.0
straight	3+PE+5	630 / 250  UL/CSA 600 / 250	30 / 7	IP 67	≥ 500	3	-20°C up to +130°C	PA	UL 94 / V0	3.5 - 2.5 2.5 - 4.0 / 0.5 -1.5	1116642 - 00000	Female	
											1116644 - 00000	Male	

## X-TEC 23 Signal connector \_12/17-pole

Image	Name	Functional Description	Permissions
	<b>X-TEC 23 Signal connector</b> _Straight _12/17-pole _Metal	_Signal connector as plug-in connector for industrial use with quick release fastener and crimp junction _Junction of servo motors, signal transmissions and bus systems _Simple 360° shield support through cap clamping _Colour coding after DESINA by coded ring	DIN EN 60664-1 (VDE 0110-1) DIN EN 61984 (VDE 0627) DIN EN 60529 (VDE 0470-1) UL: recognized



You will find the appropriate contacts for our connectors on page 66/67

## X-TEC 23 Signal connector \_12/17-pole

Technical parameters											Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current** <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm <sup>2</sup>	Material-No.	Type	Clamping range mm
straight	12 / 17	160 / 125  UL/CSA 125 / 125	7 / 4	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	0.14 - 1.0	1116677 - 00000	12 Pol - Female	7.5 - 12.0
											1116674 - 00000	12 Pol - Male	7.5 - 12.0
											1116678 - 00000	12 Pol - Female	9.5 - 14.5
											1116675 - 00000	12 Pol - Male	9.5 - 14.5
											1116679 - 00000	12 Pol - Female	14.0 - 17.0
											1116676 - 00000	12 Pol - Male	14.0 - 17.0
											1116683 - 00000	17 Pol - Female	7.5 - 12.0
											1116680 - 00000	17 Pol - Male	7.5 - 12.0
											1116684 - 00000	17 Pol - Female	9.5 - 14.5
											1116681 - 00000	17 Pol - Male	9.5 - 14.5
											1116685 - 00000	17 Pol - Female	14.0 - 17.0
											1116682 - 00000	17 Pol - Male	14.0 - 17.0

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## X-TEC 23 Signal connector \_12/17-pole

Image	Name	Functional Description	Permissions
	<b>X-TEC 23 Signal connector</b> _Flange straight _12/17-pole _Metal	_Signal connector as plug-in connector for industrial use with quick release fastener and crimp junction _Junction of servo motors, signal transmissions and bus systems _Simple 360° shield support through cap clamping _Colour coding after DESINA by coded ring	DIN EN 60664-1 (VDE 0110-1) DIN EN 61984 (VDE 0627) DIN EN 60529 (VDE 0470-1) UL: recognized
	<b>X-TEC 23 Signal connector</b> _Flange angulated _12/17-pole _Metal		




You will find the appropriate contacts for our connectors on page 66/67

## X-TEC 23 Signal connector \_12/17-pole

Technical parameters											Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current** <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm <sup>2</sup>	Material-No.	Type	Clamping range mm
straight	12 / 17	160 / 125  UL/CSA 125 / 125	7 / 4	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	0.14 - 1.0	1116647 - 00000	12 Pol - Female	
											1116646 - 00000	12 Pol - Male	
											1116649 - 00000	17 Pol - Female	
											1116648 - 00000	17 Pol - Male	
angulated	12 / 17	160 / 125  UL/CSA 125 / 125	7 / 4	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	0.14 - 1.0	1116656 - 00000	12 Pol - Female	Flange 25
											1116654 - 00000	12 Pol - Male	Flange 25
											1116657 - 00000	12 Pol - Female	Flange 28
											1116655 - 00000	12 Pol - Male	Flange 28
											1116660 - 00000	17 Pol - Female	Flange 25
											1116658 - 00000	17 Pol - Male	Flange 25
											1116661 - 00000	17 Pol - Female	Flange 28
											1116659 - 00000	17 Pol - Male	Flange 28

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)



## X-TEC 32 Power connector \_3+PE+5

Image	Name	Functional Description	Permissions
	<b>X-TEC 32 Power connector</b> _Straight _3+PE+5 _Metal	_Power connector as plug-in connector for industrial use with quick release fastener and crimp junction _Junction of servo motors, asynchronous motors and 3-phase users _Simple 360° shield support through cap clamping _Colour coding after DESINA by coded ring	DIN EN 60664-1 (VDE 0110-1) DIN EN 61984 (VDE 0627) DIN EN 60529 (VDE 0470-1) UL: recognized
	<b>X-TEC 32 Power connector</b> _Flange straight _3+PE+5 _Metal		
	<b>X-TEC 32 Power connector</b> _Flange angulated _3+PE+5 _Metal		

## X-TEC 32 Power connector \_3+PE+5

Technical parameters											Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current** <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm <sup>2</sup>	Material-No.	Type	Clamping range mm
straight	3+PE+5	630 / 250  UL/CSA 600 / 250	60 / 7	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	1.5 - 4.0 6.0 - 10.0 / 0.5 - 1.5	1116701 - 00000	Female	9.0 - 14.0
											1116706 - 00000	Male	9.0 - 14.0
											1116702 - 00000	Female	12.0 - 20.0
											1116707 - 00000	Male	12.0 - 20.0
straight	3+PE+5	630 / 250  UL/CSA 600 / 250	60 / 7	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	1.5 - 4.0 6.0 - 10.0 / 0.5 - 1.5	1116687 - 00000	Female	
											1116689 - 00000	Male	
angulated	3+PE+5	630 / 250  UL/CSA 600 / 250	60 / 7	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	1.5 - 4.0 6.0 - 10.0 / 0.5 - 1.5	1116694 - 00000	Female	
											1116695 - 00000	Male	

## X-TEC 32 Power connector \_3+PE+5




Image	Name	Functional Description	Permissions
	<b>X-TEC 32 Power connector</b> _Straight _3+PE+5 _Plastic	_Power connector as plug-in connector for industrial use with quick release fastener and crimp junction _Junction of servo motors, asynchronous motors and 3-phase users _Simple 360° shield support through cap clamping _Colour coding after DESINA by coded ring	DIN EN 60664-1 (VDE 0110-1) DIN EN 61984 (VDE 0627) DIN EN 60529 (VDE 0470-1) UL: recognized
	<b>X-TEC 32 Power connector</b> _Flange straight _3+PE+5 _Plastic		

## X-TEC 32 Power connector \_3+PE+5

Technical parameters											Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current** <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm <sup>2</sup>	Material-No.	Type	Clamping range mm
straight	3+PE+5	630 / 250  UL/CSA 600 / 250	60 / 7	IP 67	≥ 500	3	-20°C up to +130°C	PA	UL 94 / V0	1.5 - 4.0 6.0 - 10.0 / 0.5 - 1.5	1116698 - 00000	Female	9.0 - 14.0
											1116703 - 00000	Male	9.0 - 14.0
											1116699 - 00000	Female	12.0 - 20.0
											1116704 - 00000	Male	12.0 - 20.0
											1116700 - 00000	Female	12.0 - 20.0* <sup>3</sup>
straight	3+PE+5	630 / 250  UL/CSA 600 / 250	60 / 7	IP 67	≥ 500	3	-20°C up to +130°C	PA	UL 94 / V0	1.5 - 4.0 6.0 - 10.0 / 0.5 - 1.5	1116686 - 00000	Female	
											1116688 - 00000	Male	



## X-TEC 32 Power connector \_6+PE+4



Image	Name	Functional Description	Permissions
	<b>X-TEC 32 Power connector</b> _Straight _6+PE+4 _Metal	_Power connector as plug-in connector for industrial use with quick release fastener and crimp junction _Junction of asynchronous motors for star-delta connection and power bus _Simple 360° shield support through cap clamping _Colour coding after DESINA by coded ring	DIN EN 60664-1 (VDE 0110-1) DIN EN 61984 (VDE 0627) DIN EN 60529 (VDE 0470-1) UL: recognized
	<b>X-TEC 32 Power connector</b> _Flange straight _6+PE+4 _Metal		
	<b>X-TEC 32 Power connector</b> _Flange angulated _6+PE+4 _Metal		

## X-TEC 32 Power connector \_6+PE+4

Technical parameters											Variants		
Model	No. of poles	Voltage*1 (V) Pwr/Sig	Current**2 (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm <sup>2</sup>	Material-No.	Type	Clamping range mm
straight	6+PE+4	630 / 250  UL /CSA 600 / 250	24 / 5	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	3.5 - 2.5 / 2.5 - 4.0	1116711 - 00000	Female	9.0 - 14.0
											1116716 - 00000	Male	9.0 - 14.0
											1116712 - 00000	Female	12.0 - 20.0
											1116717 - 00000	Male	12.0 - 20.0
straight	6+PE+4	630 / 250  UL /CSA 600 / 250	24 / 5	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	3.5 - 2.5 / 2.5 - 4.0	1116691 - 00000	Female	
											1116693 - 00000	Male	
angulated	6+PE+4	630 / 250  UL /CSA 600 / 250	24 / 5	IP 67	≥ 500	3	-20°C up to +130°C	Zinc diecast, nickel plated	UL 94 / V0	3.5 - 2.5 / 2.5 - 4.0	1116696 - 00000	Female	
											1116697 - 00000	Male	










## X-TEC 32 Power connector \_6+PE+4

## X-TEC 32 Power connector \_6+PE+4




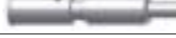






Image	Name	Functional Description	Permissions
	<b>X-TEC 32 Power connector</b> _straight _6+PE+4 _Plastic	_Power connector as plug-in connector for industrial use with quick release fastener and crimp junction _Junction of asynchronous motors for star-delta connection and power bus _Colour coding after DESINA by coded ring	DIN EN 60664-1 (VDE 0110-1) DIN EN 61984 (VDE 0627) DIN EN 60529 (VDE 0470-1) UL: recognized
	<b>X-TEC 32 Power connector</b> _Flange straight _6+PE+4 _Plastic		

Technical parameters											Variants		
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Pollution degree	Temperature range	Housing	Fire protection class	Cross-section in mm <sup>2</sup>	Material-No.	Type	Clamping range mm
straight	6+PE+4	630 / 250  UL/CSA 600 / 250	24 / 5	IP 67	≥ 500	3	-20°C up to +130°C	PA	UL 94 / V0	3.5 - 2.5 / 2.5 - 4.0	1116708 - 00000	Female	9.0 - 14.0
											1116713 - 00000	Male	9.0 - 14.0
											1116709 - 00000	Female	12.0 - 20.0
											1116714 - 00000	Male	12.0 - 20.0
											1116710 - 00000	Female	12.0 - 20.0* <sup>3</sup>
1116715 - 00000	Male	12.0 - 20.0* <sup>3</sup>											
straight	6+PE+4	630 / 250  UL/CSA 600 / 250	24 / 5	IP 67	≥ 500	3	-20°C up to +130°C	PA	UL 94 / V0	3.5 - 2.5 / 2.5 - 4.0	1116690 - 00000	Female	
											1116692 - 00000	Male	








## X-TEC Contacts

Image	Name	Coating	Material-No.	Crimping pliers	Positioner
<b>FOR X-TEC 23 POWER CONNECTOR 3+PE+5</b>					
	2 mm Contact Pwr Female for 3.5 - 2.5 mm <sup>2</sup>	gold plated	1111859 - 00000	TYPE 201	X20
	2 mm Contact Pwr Female for 2.5 - 4.0 mm <sup>2</sup>	gold plated	1112211 - 00000	TYPE 201	X20
	2 mm Contact Pwr Male for 3.5 - 2.5 mm <sup>2</sup>	gold plated	1111858 - 00000	TYPE 201	X20
	2 mm Contact Pwr Male for 2.5 - 4.0 mm <sup>2</sup>	gold plated	1112210 - 00000	TYPE 201	X20
	1 mm Contact SIG Female HC for 0.5 - 1.5 mm <sup>2</sup>	gold plated	1112544 - 00000	TYPE 101	
				TYPE 201	X11
	1 mm Contact SIG Male for 0.5 - 1.5 mm <sup>2</sup>	gold plated	1112545 - 00000	TYPE 101	
				TYPE 201	X11
<b>FOR X-TEC 23 SIGNAL CONNECTOR 12/17 POLE</b>					
	Signalcontact Female slotted for 0.14 - 1.0 mm <sup>2</sup>	gold plated	1100318 - 00000	TYPE 101	
				TYPE 201	X10
	Signalcontact Female HC for 0.14 - 1.0 mm <sup>2</sup>	gold plated	1104821 - 00000	TYPE 101	
				TYPE 201	X10
	Signalcontact Male turned for 0.14 - 1.0 mm <sup>2</sup>	gold plated	1100257 - 00000	TYPE 101	
				TYPE 201	X10






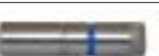


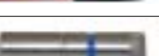
## X-TEC Contacts

Image	Name	Coating	Material-No.	Crimping pliers	Positioner
<b>FOR X-TEC 32 POWER CONNECTOR 3+PE+5</b>					
	Contact Pwr Female for 1.5 - 4.0 mm <sup>2</sup>	gold plated	1112458 - 00000	TYPE 301	X30
	Contact Pwr Female for 6.0 - 10.0 mm <sup>2</sup>	gold plated	1111984 - 00000	TYPE 301	X30
	Contact Pwr Male for 1.5 - 4.0 mm <sup>2</sup>	gold plated	1112457 - 00000	TYPE 301	X30
	Contact Pwr Male for 6.0 - 10.0 mm <sup>2</sup>	gold plated	1111983 - 00000	TYPE 301	X30
	1 mm Contact SIG Female HC for 0.5 - 1.5 mm <sup>2</sup>	gold plated	1112544 - 00000	TYPE 101	
				TYPE 201	X11
	1 mm Contact SIG Male for 0.5 - 1.5 mm <sup>2</sup>	gold plated	1112545 - 00000	TYPE 101	
				TYPE 201	X11
<b>FOR X-TEC 32 POWER CONNECTOR 6+PE+4</b>					
	2 mm Contact Pwr Female for 3.5 - 2.5 mm <sup>2</sup>	gold plated	1111859 - 00000	TYPE 201	X20
	2 mm Contact Pwr Female for 2.5 - 4.0 mm <sup>2</sup>	gold plated	1112211 - 00000	TYPE 201	X20
	2 mm Contact Pwr Male for 3.5 - 2.5 mm <sup>2</sup>	gold plated	1111858 - 00000	TYPE 201	X20
	2 mm Contact Pwr Male for 2.5 - 4.0 mm <sup>2</sup>	gold plated	1112210 - 00000	TYPE 201	X20

## X-TEC Equipment

Image	Name	Functional Description	Material-No.
<b>FOR X-TEC 23</b>			
	<b>Connecting element</b> _Plastic	Connecting element with quick-release lock to connect two X-TEC connectors. Can only be released with tool.	1118521 - 00000
	<b>DIN rail adapter</b> _90/180°	Adapter for assembling circular connectors with mounting flange on DIN rail: _Line direction 90/180° _For flange sizes 21, 25 and 28 mm	1115771 - 00000
		Plus 8 screws	1116354 - SP001
	<b>DIN rail adapter</b> _135°	Adapter for assembling circular connectors with mounting flange on DIN rail: _Line direction 135° _For flange sizes 21, 25 and 28 mm	1115772 - 00000
		Plus 8 screws	1116355 - SP001
	<b>Metal Flange</b>	Fold-down metal flange. For 4-hole wall mount. Watertight to IP67 when mounted.	1120694 - 00000
	<b>Adapter</b> _M 20 x 1.5	For Flange 28 x 28 with O-ring seal	1128389 - 00000
<b>FOR X-TEC 32</b>			
	<b>Connecting element</b> _Plastic	Connecting element with quick-release lock to connect two X-TEC connectors. Can only be released with tool.	1116760 - 00000
	<b>DIN rail adapter</b> _90/180°	Adapter for assembling circular connectors with mounting flange on DIN rail: _Line direction 90/180° _For flange size 40 mm	1119277 - 00000

## X-TEC Equipment

Image	Name	Functional Description	Material-No.
	<b>DIN rail adapter</b> _135°	Adapter for assembling circular connectors with mounting flange on DIN rail: _Line direction 90/180° _For flange size 40 mm	1119276 - 00000
	<b>Metal Flange</b>	Metal flange. For 4-hole wall mount, to IP20 when mounted.	1112410 - 00000
<b>MORE</b>			
	<b>X-TEC Crimping pliers</b> _TYPE 101	Crimping pliers for X-TEC contacts Incl. suitable positioner	1121814 - 00000
	<b>X-TEC Crimping pliers</b> _TYPE 201	Crimping pliers for X-TEC contacts	1121815 - 00000
	<b>Werkzeug Positionierer X10</b>	For 1 mm sensor contacts in the power socket connector. Use with LQ crimping pliers 201	1121809 - 00000
	<b>Werkzeug Positionierer X11</b>	For 1 mm sensor contacts in the power socket connector. Use with LQ crimping pliers 201	1121810 - 00000
	<b>Werkzeug Positionierer X20</b>	For 2 mm power contacts in the power socket connector. Use with LQ crimping pliers 201	1121812 - 00000
	<b>X-TEC Crimping pliers</b> _TYPE 301	Crimping pliers for X-TEC contacts	1121816 - 00000
	<b>Werkzeug Positionierer X30</b>	For 3 mm power contacts in the power socket connector. Use with <b>LQ crimping pliers 301</b>	1121813 - 00000



## **W-TEC Cable assemblies:**

**Non-proprietary. Consistent. Impressive.** Where machine parts and components made up of different manufacturers and makes are connected to each other, numerous electrotechnical interface problems occur. The solution is really simple – the W-TEC power cable assembly.

It provides a simple, continuous connection that can be used anywhere and does not depend on a specific manufacturer. The power cable assembly reduces the complexity and variation in cable assemblies.

## W-TEC Cable actuator/sensor M8 / M12

Image	Name	Functional Description	Permissions
	<b>cable actuator/sensor</b> _unshielded _3 x 0.34 UL	_Cable converted, shielded or unshielded for junction of actuator and sensor _Base cable equal extension cable	UL / CSA
	_unshielded _4 x 0.34 UL		UL / CSA
	_unshielded _4 x 0.34 UL		UL / CSA
	_unshielded _4 x 0.34 UL		UL / CSA
	_unshielded _3 x 0.34 UL		UL / CSA
	_unshielded _4 x 0.34 UL		UL / CSA
	_unshielded _4 x 0.34 UL		UL / CSA
	_unshielded _3 x 0.34 UL		UL / CSA





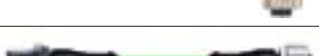



Various lengths available at request

## W-TEC Cable actuator/sensor M8 / M12

Technical parameters													Material-No.
Model	Locking type Source/destination	No. of poles	Voltage*1 (V)	Current*2 (A)	Protection class (locked)	Mating cycles	Temperature range flexible	Cable sheath	Colour	Cable design in mm <sup>2</sup>	Shielding	Dynamics	
Connector M 12 straight on Female straight M 8	Thread M 12 / M 8	3	60	4	IP 67	≥ 100	-25°C up to +80°C	PUR	yellow RAL 1021	4 x 0.34	unshielded	DA 6	1100057 - 00000
Connector M 12 straight on Female straight M 8	Thread M 12 / M 8	4	30	4	IP67	≥ 100	-25°C up to +80°C	PUR	yellow RAL 1021	4 x 0.34	unshielded	DA 6	1100058 - 00000
Connector M 12 straight on Female straight M 12	Thread M 12 / M 12	4	250	4	IP 67	≥ 100	-25°C up to +80°C	PUR	yellow RAL 1021	4 x 0.34	unshielded	DA 6	1100077 - 00000
Connector M 12 straight on Female angulated M 12	Thread M 12 / M 12	4	250	4	IP 67	≥ 100	-25°C up to +80°C	PUR	yellow RAL 1021	4 x 0.34	unshielded	DA 6	1100146 - 00000
Connector M 12 straight on Female angulated M 8	Thread M 12 / M 8	3	60	4	IP 67	≥ 100	-25°C up to +80°C	PUR	yellow RAL 1021	4 x 0.34	unshielded	DA 6	1100180 - 00000
Connector M 12 straight on Female angulated M 8	Thread M 12 / M 8	4	30	4	IP 67	≥ 100	-25°C up to +80°C	PUR	yellow RAL 1021	4 x 0.34	unshielded	DA 6	1100181 - 00000
Connector M 8 straight on Female straight M 8	Thread M 8 / M 8	4	30	4	IP 67	≥ 100	-25°C up to +80°C	PUR	yellow RAL 1021	4 x 0.34	unshielded	DA 6	1100192 - 00000
Connector M 8 straight on Female straight M 8	Thread M 8 / M 8	3	60	4	IP 67	≥ 100	-25°C up to +80°C	PUR	yellow RAL 1021	4 x 0.34	unshielded	DA 6	1123878 - 00000

\*1) Rated voltage power/signal in V | \*2) Rated current power/signal in 40° C

## W-TEC Cable actuator/sensor M8 / M12

Image	Name	Functional Description	Permissions
	<b>Cable actuator/sensor</b> _shielded _4 x 0.34-X UL	_Cable converted, shielded or unshielded for junction of actuator and sensor _Basic cable same as extension cable	UL / CSA
	_shielded _3 x 0.34-X		-
	_shielded _4 x 0.34-X		-
	_shielded _4 x 0.34-X UL		UL / CSA
	_shielded _4 x 0.34-X UL		UL / CSA
	_shielded _4 x 0.34-X UL		UL / CSA
	_shielded _3 x 0.34 UL		UL / CSA
	_shielded _3 x 0.34 UL		UL / CSA







Various lengths available at request

## W-TEC Cable actuator/sensor M8 / M12

Technical parameters													Material-No.
Model	Locking type Source/destination	No. of poles	Voltage*1 (V)	Current*2 (A)	Protection class (locked)	Mating cycles	Temperature range flexible	Cable sheath	Colour	Cable design in mm <sup>2</sup>	Shielding	Dynamics	
Connector M 12 straight on Female straight M 12	Thread M 12 / M 12	4	250	4	IP 67	≥ 100	-20°C up to +60°C	PUR	green RAL 6018	4 x 0.34	shielded	DA 6	1100100 - 00000
Connector M 12 straight on Female straight M 8	Thread M 12 / M 8	3	250	4	IP 67	≥ 100	-20°C up to +60°C	PUR	green RAL 6018	4 x 0.34	shielded	DA 6	1100131 - 00000
Connector M 12 straight on Female straight M 8	Thread M 12 / M 8	4	250	4	IP 67	≥ 100	-20°C up to +60°C	PUR	green RAL 6018	4 x 0.34	shielded	DA 6	1100132 - 00000
Connector M 12 straight on Female angled M 12	Thread M 12 / M 12	4	24	4	IP 67	≥ 100	-20°C up to +60°C	PUR	green RAL 6018	4 x 0.34	shielded	DA 6	1101820 - 00000
Connector M 12 straight on Female angled M 8	Thread M 12 / M 8	4	30	4	IP 67	≥ 100	-20°C up to +60°C	PUR	green RAL 6018	4 x 0.34	shielded	DA 6	1123880 - 00000
Connector M 8 straight on Female straight M 8	Thread M 8 / M 8	4	30	4	IP 67	≥ 100	-20°C up to +60°C	PUR	green RAL 6018	4 x 0.34	shielded	DA 6	1123883 - 00000
Connector M 12 straight on Female angled M 8	Thread M 12 / M 8	3	60	4	IP 67	≥ 100	-20°C up to +60°C	PUR	green RAL 6018	4 x 0.34	shielded	DA 6	1123881 - 00000
Connector M 8 straight on Female straight M 8	Thread M 8 / M 8	3	60	4	IP 67	≥ 100	-20°C up to +60°C	PUR	green RAL 6018	4 x 0.34	shielded	DA 6	1123885 - 00000

\*1) Rated voltage power/signal in V | \*2) Rated current power/signal in 40° C

## W-TEC Equipment

Image	Name	Function
	<b>W-TEC Y-Distribution board</b> _5-POL	Distribution board function M12
	<b>W-TEC Y-Distribution board</b> _5-POL	Parallel circuit M12
	<b>W-TEC Y-Distribution board</b> _4-POL	Series circuit M12
	<b>W-TEC Protective cap</b> _Black	Protective cap M8
	<b>W-TEC Protective cap</b> _Black	Protective cap M12
	<b>W-TEC Protective cap</b> _Yellow	Protective cap M12







## W-TEC Equipment

Technical parameters							Material-No.
Model	Locking	No. of poles	Voltage* <sup>1</sup> (V)	Current* <sup>2</sup> (A)	Protection class (locked)	Temperature range	
1 x M 12 - A STI 2 x M 12 - I BU	Threaded joint	5	125	4	IP 65	-20°C up to +80°C	1113052 - 00000
1 x M 12 - A STI 2 x M 12 - I BU	Threaded joint	5	125	4	IP 65	-20°C up to +80°C	1103051 - 00000
1 x M 12 - A STI 2 x M 12 - I BU	Threaded joint	4	125	4	IP 65	-20°C up to +80°C	1107036 - 00000
M 8 Male thread	Threaded joint						1121412 - 00000
M 12 Male thread	Threaded joint						1104827 - 00000
M 12 Female thread	Threaded joint						1116991 - 00000

\* 1) Rated voltage power/signal in V | \* 2) Rated current power/signal in 40° C



## W-TEC 23 Power cable

Image	Name	Functional Description	Permissions
	<b>Power cable User</b> _4 x 1.5	_Cable converted, unshielded for the supply of 3-phase consumers _Basic cable same as extension cable _X-TEC Quick release	UL recognized
	<b>Power cable asynchronous motor</b> _4 x 2.5	_Cable converted, unshielded for the supply of asynchronous drives with brake drive and temperature sensor _Basic cable same as extension cable _X-TEC Quick release	UL recognized
	<b>Power cable asynchronous motor</b> _4 x 4.0		
	<b>Power cable asynchronous motor</b> _4 x 2.5	_Cable converted, unshielded for allocation of the module buses _Basic cable same as extension cable _X-TEC Quick release	UL recognized
	<b>Power cable asynchronous motor</b> _4 x 4.0		
	<b>Power cable servo motor with pair</b> _4 x 1.5	_Cable converted, shielded for the supply of servo drives with brake drive and temperature sensor _Basic cable same as extension cable _X-TEC Quick release	UL recognized


Various lengths available at request

## W-TEC 23 Power cable

Technical parameters													Variants	
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Temperature range flexible	Cable sheath	Colour	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m
X-TEC 23 straight	3+PE+5	300 / -	15.2	IP 67	≥ 500	-40°C up to +90°C	PUR	black similar RAL 9005	4 x 1.5	unshielded	DA 6	UL 94 / V0	1116864 - 00500	5
													1116864 - 01000	10
X-TEC 23 straight	3+PE+5	630 / 250	15.75 / 7.0	IP 67	≥ 500	-20°C up to +60°C	PUR	black similar RAL 9005	4 x 2.5 + 5 x 1.5	unshielded	DA 4	UL 94 / V0	1116873 - 00500	5
													1116873 - 01000	10
X-TEC 23 straight	3+PE+5	630 / 250	21.0 / 7.0	IP 67	≥ 500	-20°C up to +80°C	PUR	black similar RAL 9005	4 x 4.0 + (4 x 1.5) + 1 x 1.5	unshielded	DA 4	UL 94 / V0	1116874 - 00500	5
													1116874 - 01000	10
X-TEC 23 straight	3+PE+5	630 / 250	15.75 / 7.0	IP 67	≥ 500	-20°C up to +60°C	PUR	black similar RAL 9005	4 x 2.5 + 5 x 1.5	unshielded	DA 4	UL94 / V0	1117010 - 00500	5
													1117010 - 01000	10
X-TEC 23 straight	3+PE+5	630 / 250	21.0 / 7.0	IP 67	≥ 500	-20°C up to +80°C	PUR	black similar RAL 9005	4 x 4.0 + (4 x 1.5) + 1 x 1.5	unshielded	DA 4	UL94 / V0	1117011 - 00500	5
													1117011 - 01000	10
X-TEC 23 straight	3+PE+5	600 / 250	11.4 / 7.0	IP 67	≥ 500	-40°C up to +80°C	PUR	orange similar RAL 2003	4 x 1.5 + 2 x (2 x 0.75)	unshielded	DA 6	UL94 / V0	1117089 - 00500	5
													1117089 - 01000	10

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)






## W-TEC 23 Power cable

Image	Name	Functional Description	Permissions
	<b>Power cable servo motor without pair</b> _4 x 2.5	_Cable converted, shielded for the supply of servo drives with brake drive and temperature sensor _Basic cable same as extension cable _X-TEC Quick release	UL recognized

## W-TEC 23 Power cable

Technical parameters													Variants	
Model	No. of poles	Voltage <sup>*1</sup> (V) Pwr/Sig	Current <sup>*2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Temperature range flexible	Cable sheath	Colour	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m
X-TEC 23 straight	3+PE+5	630 / 250	15.75 / 7.0	IP 67	≥ 500	-40°C up to +80°C	PUR	orange similar RAL 2003	4 x 2.5 + 2 x (2 x 1.0)	shielded	DA 6	UL94 / V0	1117090 - 00500	5
													1117090 - 01000	10

## W-TEC 32 Power cable

Image	Name	Functional Description	Permissions
	<b>Power cable asynchronous motor</b> _4 x 4.0	_Cable converted, unshielded for the supply of asynchronous drives with brake drive and temperature sensor _Basic cable same as extension cable _X-TEC Quick release	UL recognized
	<b>Power cable asynchronous motor</b> _4 x 6.0		UL recognized
	<b>Power cable asynchronous motor</b> _4 x 10.0		UL recognized
	<b>Power cable asynchronous motor Star/Delta</b> _7 x 2.5	_Cable converted, unshielded for the supply of asynchronous drives with lead through winding junctions for star-delta bridge + brake drive and temperature sensor _Basic cable same as extension cable _X-TEC Quick release	UL recognized
	<b>Power cable servo motor with pair</b> _4 x 4.0	Cable converted, shielded for the supply of servo drives with brake drive and temperature sensor _Basic cable same as extension cable _X-TEC Quick release	UL recognized







Various lengths available at request

## W-TEC 32 Power cable

Technical parameters														Variants	
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Temperature range flexible	Cable sheath	Colour	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m	
X-TEC 32 straight	3+PE+5	630 / 220	21.0 / 7.0	IP 67	≥ 500	-20°C up to +80°C	PUR	black similar RAL 9005	4 x 4.0 + (4 x 1.5) + 1 x 1.5	unshielded	DA 4	UL94 / V0	1116876 - 00500	5	
													1116876 - 01000	10	
X-TEC 32 straight	3+PE+5	630 / 220	27.0 / 7.0	IP 67	≥ 500	-20°C up to +80°C	PUR	black similar RAL 9005	4 x 6.0 + (4 x 1.5) + 1 x 1.5	unshielded	DA 4	UL94 / V0	1116999 - 00500	5	
													1116999 - 01000	10	
X-TEC 32 straight	3+PE+5	630 / 220	37.5 / 7	IP 67	≥ 500	-20°C up to +80°C	PUR	black similar RAL 9005	4 x 10.0 + (4 x 1.5) + 1 x 1.5	unshielded	DA 4	UL94 / V0	1119289 - 00500	5	
													1119289 - 01000	10	
X-TEC 32 straight	6+PE+4	630 / 220	13.65 / 5.4	IP 67	≥ 500	-20°C up to +60 °C	PVC	black similar RAL 9005	7 x 2.5 + (4 x 0.75)	unshielded	DA 2	UL94 / V0	1117000 - 00500	5	
													1117000 - 01000	10	
X-TEC 32 straight	3+PE+5	630 / 220	21.0 / 7.0	IP 67	≥ 500	-40°C up to +80°C	PUR	orange similar RAL 2003	4 x 4.0 + (2 x 1.0) + (2 x 1.5)	shielded	DA 6	UL94 / V0	1117092 - 00500	5	
													1117092 - 01000	10	

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## W-TEC 23 und 32 \_unconnected cable end

Image	Name	Functional Description	Permissions
	<b>W-TEC 23 Mounting socket</b> _3+PE+5 _straight	_Flange 28 x 28 mm _3+PE+5 _unconnected cable end _Metal (Male)	UL recognized
	<b>W-TEC 23 Mounting socket</b> _3+PE+5 _angulated	_X-TEC Quick release	
	<b>W-TEC 23 Mounting socket</b> _3+PE+5 _angulated	_Adapter for screw thread included, M 20 x 1.5 _3+PE+5 _unconnected cable end	UL recognized
	<b>W-TEC 23 Mounting socket</b> _3+PE+5 _straight	_Metal, Adapter M 20 (Male) _X-TEC Quick release	
	<b>W-TEC 32 Mounting socket</b> _6+PE+4 _straight	_Flange 40 x 40 mm _unconnected cable end _Metal (Male)	UL recognized
	<b>W-TEC 32 Mounting socket</b> _3+PE+5 _straight	_X-TEC Quick release	UL recognized







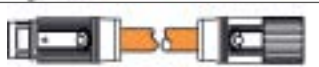
Various lengths available at request

## W-TEC 23 und 32 \_unconnected cable end





Technical parameters													Variants	
Model	No. of poles	Voltage* <sup>1</sup> (V) Pwr/Sig	Current* <sup>2</sup> (A) Pwr/Sig	Protection class (locked)	Mating cycles	Temperature range flexible	Cable sheath	Colour	Cable design in mm <sup>2</sup>	Shielding	Dynamics	Fire protection class	Material-No.	Length in m
X-TEC 23 straight	3+PE+5	630 / 250	21.0 / 7.0	IP 67	≥ 500	-20°C up to +70°C	PVC	black green-yellow dark-blue	4 x 4.0 + 5 x 1.5	unshielded	DA 0	UL94 / V0	1130169 - 00025	0,25
X-TEC 23 angulated	3+PE+5	630 / 250	21.0 / 7.0	IP 67	≥ 500	-20°C up to +70°C	PVC	black green-yellow dark-blue	4 x 4.0 + 5 x 1.5	unshielded	DA 0	UL94 / V0	1130167 - 00025	0,25
X-TEC 23 angulated	3+PE+5	630 / 250	21.0 / 7.0	IP 67	≥ 500	-20°C up to +70°C	PVC	black green-yellow dark-blue	4 x 4.0 + 5 x 1.5	unshielded	DA 0	UL94 / V0	1130170 - 00025	0,25
X-TEC 23 straight	3+PE+5	630 / 250	21.0 / 7.0	IP 67	≥ 500	-20°C up to +70°C	PVC	black green-yellow dark-blue	4 x 4.0 + 5 x 1.5	unshielded	DA 0	UL94 / V0	1130171 - 00025	0,25
X-TEC 32 straight	6+PE+4	630 / 220	17.25 / 5.4	IP 67	≥ 500	-20°C up to +70°C	PVC	black green-yellow dark-blue	7 x 4.0 + 4 x 0.75	unshielded	DA 0	UL94 / V0	Customised manufacture, therefore no standard number	-
X-TEC 32 straight	3+PE+5	630 / 220	37.5 / 7	IP 67	≥ 500	-20°C up to +70°C	PVC	black green-yellow dark-blue	4 x 10.0 + 5 x 1.5	unshielded	DA 0	UL94 / V0	Customised manufacture, therefore no standard number	-

\*1) Nominal voltage in V (Power/Signal) | \*2) Nominal current in A in 40°C (Power/Signal)

## Servo cable to Siemens standard

Image	Name	Funktion
<b>Siemens DRIVE-CLiQ®</b>		
	<b>Signal cable</b> _IP 20 - IP 20	_Signal cable shielded _Colour DESINA green (RAL 6018)
	<b>Signal cable</b> _IP 20 - IP 67	_Suitable for drag chains _In all popular versions for different motors and with different cross-sections
	<b>Signal cable</b> _IP 67 - IP 67	
<b>Siemens Signal cable</b>		
	<b>Signal cable</b> _Basic	_Signal cable shielded _Colour DESINA green (RAL 6018)
	<b>Signal cable</b> _Extension	_Suitable for drag chains _In all popular versions for different motors and with different cross-sections
<b>Siemens Power cable</b>		
	<b>Power cable</b> _Basic incl. brake	_Signal cable shielded _Colour DESINA orange (RAL 2003)
	<b>Power cable</b> _Extension incl. brake	_Suitable for drag chains _In all popular versions for different motors and with different cross-sections

## Servo cable to Bosch standard

Image	Name	Funktion
<b>Bosch Sensor cable</b>		
	<b>Sensor cable</b> _Basic	_Sensor cable shielded _Colour DESINA green (RAL 6018)
	<b>Sensor cable</b> _Extension	_Suitable for drag chains _In all popular versions for different motors and with different cross-sections
<b>Bosch Power cable</b>		
	<b>Power cable</b> _Basic	_Sensor cable shielded _Colour DESINA orange (RAL 2003)
	<b>Power cable</b> _Extension	_Suitable for drag chains _In all popular versions for different motors and with different cross-sections

Selection of our cable assemblies to Siemens ® and Bosch ® standard.

### LQ manufactures upon request

- \_Cable assemblies to **Siemens** Standard 6FX8002®
- \_Cable assemblies to **Bosch** Standard

In all popular versions for different motors and with different cross-sections.

Please ask us for detailed information about these products.



## **A-TEC Functional modules:**




Modular and simple

**Just mount and plug in:** this is how control cabinets will work in the future. The LQ Group has revolutionised the way control cabinets are set up. Instead of having lots of individual components and complicated wiring from numerous different suppliers, the functions are now bundled together into modules.

Perhaps you don't want modules but a complete ready-to-use control cabinet? We make it simple. Further information on page 112.

## A-TEC Motor starter

## A-TEC Motor starter


Image	Name	Functional Description
	<b>A-TEC Motor starter up to 3 kW</b> _Right / Left _Safe	Connected 3~/400 V energy outlet for reversal of three-phase current with ASi-control _Power monitoring and overload protection including feedback
	<b>A-TEC Motor starter up to 3 kW</b> _Right / Left _Non Safe	_Digital inlet for the diagnosis message of the temperature monitoring
	<b>A-TEC Motor starter up to 3 kW</b> _Right / Left and In / Out _Safe	Connected 3~/400 V energy outlet for reversal of three-phase current with ASi-control _Power monitoring and overload protection including feedback
	<b>A-TEC Motor starter up to 3 kW</b> _Right / Left and In / Out _Non Safe	_Digital inlet for the diagnosis message of the temperature monitoring
	<b>A-TEC Motor starter up to 2 x 3 kW</b> _In / Out _Safe	3~/400 V energy outlet, with ASi-control, power monitoring and output for 2 consumers, overload protection including feedback
	<b>A-TEC Motor starter up to 2 x 3 kW</b> _In / Out _Non Safe	_In/ Out only _Analysis for the motor temperature sensor _Diagnosis and programming are accessible in mounted condition _Operating asynchronous motors, heatings or aggregates

Technical parameters								Variants	
Power amplifier	Voltage* <sup>1</sup> (V)	Current (A)	Inlet interface	COM-Port* <sup>2</sup>	Motor outlet	Protection class	Dimensions (W x H x D) in mm	Material-No.	Current (A)
Electronic reverse power relays	400 / 460	0.18 - 9.0	LQ module bus connectors, 10-pin	ASi-Bus	X-TEC 15	IP 20	100 x 150 x 170	1119386 - 00240	0.18 - 2.4
								1119386 - 00900	1.5 - 9.0
Electronic reverse power relays	400 / 460	0.18 - 9.0	LQ module bus connectors, 10-pin	ASi-Bus	X-TEC 15	IP 20	100 x 150 x 170	1119385 - 00240	0.18 - 2.4
								1119385 - 00900	1.5 - 9.0
Electronic reverse power relays	400 / 460	0.18 - 9.0	LQ module bus connectors, 10-pin	ASi-Bus	X-TEC 15	IP 20	100 x 150 x 170	1124235 - 00240	0.18 - 2.4
								1124235 - 00900	1.5 - 9.0
Electronic reverse power relays	400 / 460	0.18 - 9.0	LQ module bus connectors, 10-pin	ASi-Bus	X-TEC 15	IP 20	100 x 150 x 170	1124234 - 00240	0.18 - 2.4
								1124234 - 00900	1.5 - 9.0
Electronic power relay	400 / 460	0.18 - 9.0	LQ module bus connectors, 10-pin	ASi-Bus	2 x X-TEC 15	IP 20	150 x 150 x 170	1124237 - 00240	0.18 - 2.4
								1124237 - 00900	1.5 - 9.0
Electronic power relay	400 / 460	0.18 - 9.0	LQ module bus connectors, 10-pin	ASi-Bus	2 x X-TEC 15	IP 20	150 x 150 x 170	1124236 - 00240	0.18 - 2.4
								1124236 - 00900	1.5 - 9.0

\*1) Input / supply voltage in V | \*2) Communications interface

## A-TEC Motor starter

## A-TEC Motor starter

Image	Name	Functional Description
	<b>A-TEC Motor starter up to 5.5 kW</b> _In / Out _Safe	Connected 3~/400 V energy outlet for reversal of three-phase current with ASi-control, power monitoring and overload protection including feedback  _Outgoing connector 24 V output as brake control or continuous voltage, can be coded _Digital inlet for the diagnosis message of the temperature monitoring


Technical parameters								Variants	
Power amplifier	Voltage* <sup>1</sup> (V)	Current (A)	Inlet interface	COM-Port* <sup>2</sup>	Motor outlet	Protection class	Dimensions (W x H x D) in mm	Material-No.	Current (A)
Electro-mechanical contactor	500	0.11 - 12.5	LQ module bus connectors, 10-pin	ASi-Bus	X-TEC 23	IP 20	200 x 150 x 190	1118581 - 00016	0.11 - 0.16
								1118581 - 00020	0.14 - 0.2
								1118581 - 00025	0.18 - 0.25
								1118581 - 00032	0.22 - 0.32
								1118581 - 00040	0.28 - 0.4
								1118581 - 00050	3.5 - 0.5
								1118581 - 00063	0.45 - 0.63
								1118581 - 00080	0.55 - 0.8
								1118581 - 00100	0.7 - 1.0
								1118581 - 00125	0.9 - 1.25
								1118581 - 00160	1.1 - 1.6
								1118581 - 00200	1.4 - 2.0
								1118581 - 00250	1.8 - 2.5
								1118581 - 00320	2.2 - 3.2
								1118581 - 00400	2.8 - 4.0
								1118581 - 00500	3.5 - 5.0
1118581 - 00630	4.5 - 6.3								
1118581 - 00800	5.5 - 8.0								
1118581 - 01000	7.0 - 10.0								
1118581 - 01250	9.0 - 12.5								

\*1) Input / supply voltage in V | \*2) Communications interface



## A-TEC Motor starter

## A-TEC Motor starter


Image	Name	Functional Description
	<p><b>A-TEC Motor starter up to 5.5 kW</b>                      _In / Out                      _Non Safe</p>	<p>Connected 3~/400 V energy outlet for reversal of three-phase current with ASi-control, power monitoring and overload protection including feedback</p> <p>_Outgoing connector 24 V output as brake control or continuous voltage, can be coded</p> <p>_Digital inlet for the diagnosis message of the temperature monitoring</p>

Technical parameters								Variants	
Power amplifier	Voltage* <sup>1</sup> (V)	Current (A)	Inlet interface	COM-Port* <sup>2</sup>	Motor outlet	Protection class	Dimensions (W x H x D) in mm	Material-No.	Current (A)
Electro-mechanical contactor	500	0.11 - 12.5	LQ module bus connectors, 10-pin	ASi-Bus	X-TEC 23	IP 20	150 x 150 x 190	1118471-00016	0.11 - 0.16
								1118471-00020	0.14 - 0.2
								1118471-00025	0.18 - 0.25
								1118471-00032	0.22 - 0.32
								1118471-00040	0.28 - 0.4
								1118471-00050	0.35 - 0.5
								1118471-00063	0.45 - 0.63
								1118471-00080	0.55 - 0.8
								1118471-00100	0.7 - 1.0
								1118471-00125	0.9 - 1.25
								1118471-00160	1.1 - 1.6
								1118471-00200	1.4 - 2.0
								1118471-00250	1.8 - 2.5
								1118471-00320	2.2 - 3.2
								1118471-00400	2.8 - 4.0
								1118471-00500	3.5 - 5.0
1118471-00630	4.5 - 6.3								
1118471-00800	5.5 - 8.0								
1118471-01000	7.0 - 10.0								
1118471-01250	9.0 - 12.5								

\*1) Input / supply voltage in V | \*2) Communications interface

## A-TEC Motor starter

## A-TEC Motor starter


Image	Name	Functional Description
	<p><b>Motor starter up to 5.5 kW</b>                      _Right / Left                      _Safe</p>	<p>Connected 3~/400 V energy outlet for reversal of three-phase current with ASi-control, power monitoring and overload protection including feedback</p> <p>_Outgoing connector 24 V output as brake control or continuous voltage, can be coded</p> <p>_Digital inlet for the diagnosis message of the temperature monitoring</p>

Technical parameters								Variants	
Power amplifier	Voltage* <sup>1</sup> (V)	Current (A)	Inlet interface	COM-Port* <sup>2</sup>	Motor outlet	Protection class	Dimensions (W x H x D) in mm	Material-No.	Current (A)
Electro-mechanical contactor	500	0.11 - 12.5	LQ module bus connectors, 10-pin	ASi-Bus	X-TEC 23	IP 20	250 x 150 x 190	1118583 - 00016	0.11 - 0.16
								1118583 - 00020	0.14 - 0.2
								1118583 - 00025	0.18 - 0.25
								1118583 - 00032	0.22 - 0.32
								1118583 - 00040	0.28 - 0.4
								1118583 - 00050	0.35 - 0.5
								1118583 - 00063	0.45 - 0.63
								1118583 - 00080	0.55 - 0.8
								1118583 - 00100	0.7 - 1.0
								1118583 - 00125	0.9 - 1.25
								1118583 - 00160	1.1 - 1.6
								1118583 - 00200	1.4 - 2.0
								1118583 - 00250	1.8 - 2.5
								1118583 - 00320	2.2 - 3.2
								1118583 - 00400	2.8 - 4.0
								1118583 - 00500	3.5 - 5.0
1118583 - 00630	4.5 - 6.3								
1118583 - 00800	5.5 - 8.0								
1118583 - 01000	7.0 - 10.0								
1118583 - 01250	9.0 - 12.5								

\*1) Input / supply voltage in V | \*2) Communications interface

## A-TEC Motor starter



## A-TEC Motor starter

Image	Name	Functional Description
	<p><b>Motor starter up to 5.5 kW</b>                      _Right / Left                      _Non Safe</p>	<p>Connected 3~/400 V energy outlet for reversal of three-phase current with ASi-control, power monitoring and overload protection including feedback</p> <p>_Outgoing connector 24 V output as brake control or continuous voltage, can be coded</p> <p>_Digital inlet for the diagnosis message of the temperature monitoring</p>

Technical parameters								Variants	
Power amplifier	Voltage* <sup>1</sup> (V)	Current (A)	Inlet interface	COM-Port* <sup>2</sup>	Motor outlet	Protection class	Dimensions (W x H x D) in mm	Material-No.	Current (A)
Electro-mechanical contactor	500	0.11 - 12.5	LQ module bus connectors, 10-pin	ASi-Bus	X-TEC 23	IP 20	250 x 150 x 190	1118582 - 00016	0.11 - 0.16
								1118582 - 00020	0.14 - 0.2
								1118582 - 00025	0.18 - 0.25
								1118582 - 00032	0.22 - 0.32
								1118582 - 00040	0.28 - 0.4
								1118582 - 00050	0.35 - 0.5
								1118582 - 00063	0.45 - 0.63
								1118582 - 00080	0.55 - 0.8
								1118582 - 00100	0.7 - 1.0
								1118582 - 00125	0.9 - 1.25
								1118582 - 00160	1.1 - 1.6
								1118582 - 00200	1.4 - 2.0
								1118582 - 00250	1.8 - 2.5
								1118582 - 00320	2.2 - 3.2
								1118582 - 00400	2.8 - 4.0
								1118582 - 00500	3.5 - 5.0
1118582 - 00630	4.5 - 6.3								
1118582 - 00800	5.5 - 8.0								
1118582 - 01000	7.0 - 10.0								
1118582 - 01250	9.0 - 12.5								

\*1) Input / supply voltage in V | \*2) Communications interface

## A-TEC Motor starter







Image	Name	Functional Description
	<b>A-TEC I/O Modul</b> _4 IN/2 OUT _Safe	Module base that can be fitted for assembly of customizable modules _Suitable for air-conditioning control, area shutdown, external automatization, diagnosis module _400 V connection as well as inlets and outlets through spring-type terminals directly on the module
	<b>A-TEC I/O Modul</b> _4 IN/3 OUT _Non Safe	_ASi-slave integrated in the module base (safe or non safe)

## A-TEC Motor starter

Technical parameters								Variants	
Power amplifier	Voltage* <sup>1</sup> (V)	Current (A)	Inlet interface	COM-Port* <sup>2</sup>	Motor outlet	Protection class	Dimensions (W x H x D) in mm	Material-No.	Current (A)
-	500	16.0	LQ module bus connectors, 10-pin	ASi-Bus	-	IP 20	200 x 150 x 75	1119388 - 00020	16.0
-	500	16.0	LQ module bus connectors, 10-pin	ASi-Bus	-	IP 20	200 x 150 x 75	1119387 - 00020	16.0

\* 1) Input / supply voltage in V | \*2) Communications interface

## A-TEC Preferred modules




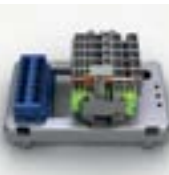
Image	Name	Functional Description
	<b>A-TEC _Infrastructure module</b>	_Creating LQ installation bus _Outgoing circuits 1-n
	<b>A-TEC _Energy leaving _up to 3 kW</b> _In / Out _Safe or Non Safe	_In / Out
	<b>A-TEC _Energy leaving _up to 5.5 kW</b> _In / Out _Safe or Non Safe	_In / Out
	<b>A-TEC _Energy leaving _up to 5.5 kW</b> _Right / Left _Safe or Non Safe	_Right / Left
	<b>A-TEC _Energy leaving EA</b> _In / Out _Safe or Non Safe	_In / Out
	<b>A-TEC _Transformer module</b> <b>_1600 VA</b> _Safe or Non Safe	_Energy conversion

## A-TEC Preferred modules

Technical parameters								
Power-amplifier	Voltage* <sup>1</sup> (V)	Current (A)	Inlet interface	COM-Port* <sup>2</sup>	Motor Outlet	Protection class	Dimensions (W x H x D) in mm	Material-No.
–	400 / 460	Max. 16 A per outgoing wiring harness/ 16 A auxiliary power per wiring harness	customer-specific	ASi-Bus	LQ module bus connector 10-pin, Outgoing wiring harness	IP 20	Sample 450 x 400 x 130	Customised manufacture, therefore no standard number
Electronic reverse power relays	400 / 460	9.0	LQ module bus connector 10-pin	ASi-Bus	X-TEC 23	IP 20	Sample 100 x 250 x 150	Customised manufacture, therefore no standard number
Electro-mechanical contactor	400 / 460	12.0	LQ module bus connector 10-pin	ASi-Bus	X-TEC 23	IP 54	Sample 182 x 180 x 165	Customised manufacture, therefore no standard number
Electro-mechanical contactor	400 / 460	12.0	2 x LQ module bus connector 10-pin	ASi-Bus	X-TEC 23	IP 54	Sample 254 x 180 x 165	Customised manufacture, therefore no standard number
Electro-mechanical contactor	400 / 460	32.0	Busbar-supply or LQ module bus connector 10-pin	ASi-Bus	X-TEC 32	IP 20	Sample 150 x 300 x 210	Customised manufacture, therefore no standard number
–	400 / 460	6.96	LQ module bus connector 10-pin	ASi-Bus	LQ module bus connector 10-pin	IP 20	Sample 200 x 200 x 280	Customised manufacture, therefore no standard number

\*1) Input / supply voltage in V | \*2) Communications interface

## A-TEC Preferred modules



Image	Name	Functional Description
	<b>A-TEC _ASi-gateway</b>	_Data conversion to ASi-Bus _Single master / double master
	<b>A-TEC _area shutdown _S</b> _Safe	_Safe powering down of the outgoing wiring harness (up to SIL3)
	<b>A-TEC allocation of module buses</b> _3-fach	Cable module connection with individual conductors Distribution board for star hub of module bus _1x Module bus IN _3x Module bus OUT _IP 20 design with two LQ module bus connectors, 10-pin
	<b>A-TEC ASi bus distribution board</b> _4-way ASi bus, 6-way ASi load voltage	ASi bus distribution board, ASi load voltage in load voltage field, can be coded: 24V1 or 24V2 _IP 20 design with one LQ module bus connector, 10-pin
	<b>A-TEC ASi bus distribution board</b> _10-way ASi load voltage	
	<b>A-TEC ASi bus distribution board</b> _10-way ASi bus	

## A-TEC Preferred modules

Technical parameters								Material-No.
Power-amplifier	Voltage* <sup>1</sup> (V)	Current (A)	Inlet interface	COM-Port* <sup>2</sup>	Motor Outlet	Protection class	Dimensions (W x H x D) in mm	
-	400 / 460	-	LQ module bus connector 10-pin	ASi-Bus	LQ module bus connector 10-pin	IP 20	Sample 350 x 200 x 160	Customised manufacture, therefore no standard number
Electro-mechanical contactor	400 / 460	16.0	LQ module bus connector 10-pin	ASi-Bus	LQ module bus connector 10-pin	IP 20	Sample 250 x 150 x 180	Customised manufacture, therefore no standard number
-	400 / 460	16.0	LQ module bus connector 10-pin	-	LQ module bus connector 10-pin	IP 20	100 x 150 x 130	1123663 - 00000
-	400 / 460	16.0	LQ module bus connector 10-pin	-	LQ module bus connector 10-pin	IP 20	200 x 100 x 130	1112116 - 00000
-	400 / 460	16.0	LQ module bus connector 10-pin	-	LQ module bus connector 10-pin	IP 20	200 x 100 x 130	1112136 - 00000
-	400 / 460	16.0	LQ module bus connector 10-pin	-	LQ module bus connector 10-pin	IP 20	200 x 100 x 130	1112137 - 00000

\*1) Input / supply voltage in V | \*2) Communications interface

## A-TEC Preferred modules

Image	Name	Functional Description
	<b>A-TEC Interface module</b>	Interface module for connecting the module bus to the conventional world
	<b>Busbar carrier</b>	Busbar carrier for building 4-pin busbar system of any width Can be used in modular control cabinet system for mounting on left, right and centre

## A-TEC Preferred modules

Technical parameters								
Power-amplifier	Voltage*1 (V)	Current (A)	Inlet interface	COM-Port*2	Motor Outlet	Protection class	Dimensions (W x H x D) in mm	Material-No.
-	500	16.0	Spring-loaded terminal	ASi-Bus	LQ module bus connector 10-pin	IP 20	200 x 100 x 130	1124090 - 00000
-	500	-	-	-	-	IP 20	-	-

## A-TEC Mounting plates and base carrier for modules

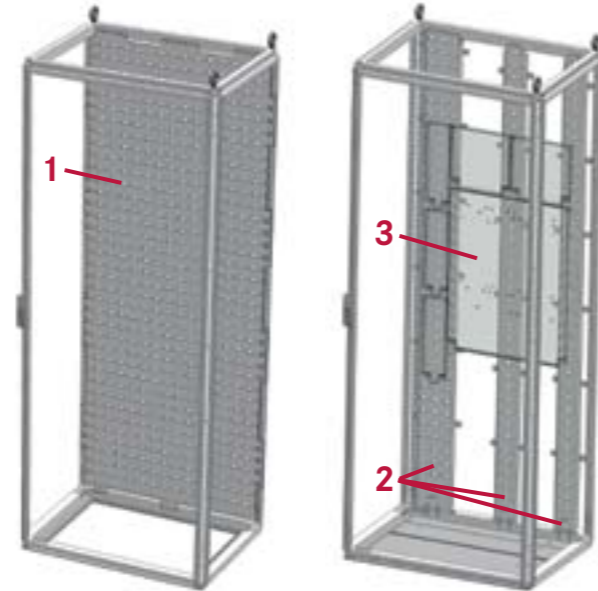
# Flexible and individual options for the control cabinet with the LQ mechanical assembly system

Our assembly system for control cabinets has been developed on the basis of a modular system and now offers you flexible solutions for assembly in the control cabinet.

LQ's modular system contains all the mechanical elements that are required for mounting modules in the control cabinet. Four standard elements form the basis for compiling modules with an individual design:

- \_Large mounting plate (1)
- \_Mounting bars (2)
- \_U-shaped section (without image)
- \_Mounting plates (3)

You gain the benefits of our specially coordinated solution that is impressive because of the level of customisation and flexibility it offers.





## A-TEC Mounting plates and base carrier for modules



Image	Name	Functional Description	Material-No.
	<b>Mounting plate</b> _Large	Mounting plates for the modular control cabinet. Available for all sizes of control cabinets	Customised manufacture, therefore no standard number
	<b>Mounting bars</b> _single- or three-row assembly	Mounting bars in various sizes for the modular control cabinet. Permits more assembly levels.	Customised manufacture, therefore no standard number
	<b>U-shaped section</b> _Different lengths	U-shaped section for mounting on left and right in control cabinet. Permits more assembly levels.	1123399-00000
	<b>Busbar with hook</b>	Depending on the length of the busbar and the weight of the components to be installed, further carrier elements may be required to provide stability _Individual dimensions / at request	1112104 - 00000
	<b>Module-connection</b> _Cable module connection with individual conductors _Lengths 400 mm	Cable assembled, unshielded for use as a system bus, for electrical connection of two functions _Sheath of single conductors made of PVC, black or green-yellow version _Connector design: LQMB-CP 2.5/10 crimp. with strain relief device (plastic)	1119476 - 00040
	<b>Module-connection</b> _Cable module connection with cable _Lengths 500 mm	_Field of application: industrial environment _More lengths at request	1119472 - 00050



## A-TEC Mounting plates and base carrier for modules

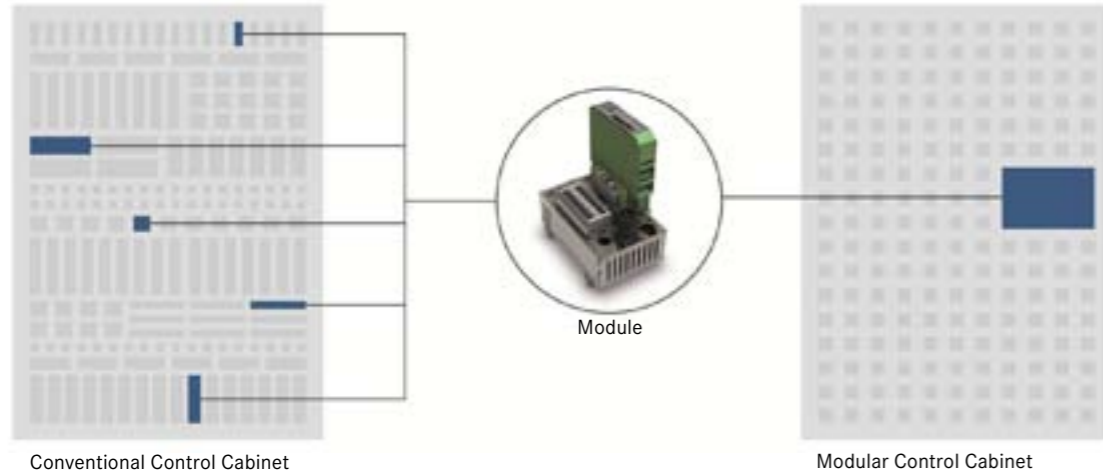
Image	Name	Functional Description			Material-No.
			Length in mm	Height in mm	
	<b>Mounting plates</b> _Height 150 mm _1 x DIN rail adapter _2 x LQ module bus connectors	The A-TEC assembly carrier plate is used for mounting an individual electrical function.  The carrier plates consist of a base carrier made of hot-galvanised sheet steel 1.25 mm thick and a backplane.	200	150	1123622 - 00020
			250	150	1123622 - 00025
			300	150	1123622 - 00030
			350	150	1123622 - 00035
			400	150	1123622 - 00040
			450	150	1123622 - 00045
			550	150	1123622 - 00055
			250	200	1123626 - 00025
	<b>Mounting plates</b> _Height 200 mm _1 x DIN rail adapter _2 x LQ module bus connectors		300	200	1123626 - 00030
			350	200	1123626 - 00035
			400	200	1123626 - 00040
			500	200	1123626 - 00050
			550	200	1123626 - 00055

## A-TEC Mounting plates and base carrier for modules

Image	Name	Functional Description			Material-No.	
			Length in mm	Height in mm		
	<b>Mounting plates</b> _2 x DIN rail adapter _2 x LQ module bus connectors	The A-TEC assembly carrier plate is used for mounting an individual electrical function.  The carrier plates consist of a base carrier made of hot-galvanised sheet steel 1.25 mm thick and a backplane.	250	250	1123718 - 00000	
			300	200	1123720 - 00000	
			300	300	1123721 - 00000	
			300	350	1123722 - 00000	
			350	300	1123723 - 00000	
			400	250	1123724 - 00000	
			450	250	1123725 - 00000	
			500	300	1123726 - 00000	
				<b>Mounting plates</b> _Without DIN rail adapter _2 x LQ module bus connectors	Carrier plate with DIN rails and backplane in different sizes. For mounting modules. Including apertures for an X-TEC mounted housing.	200
250	150	1123727 - 00025				
300	150	1123727 - 00030				
	<b>Mounting plates construction kit</b> _Construction kit for the construction of prototypes		Vertical side sheet (brace) for right and left	2.000	-	1115590 - 00000
			Vertical side sheet (brace) for right and left + aperture for LQMB connector	2.000	-	1115591 - 00000
			Horizontal sheet (brace) for the middle	2.000	-	1115592 - 00000
			Horizontal closing plate (brace) for top/ bottom	2.000	-	1115593 - 00000

## LQ Modular control cabinet

Combining different components into one functional unit (module):



**We make it simple.** The LQ Group designs, manufactures and installs modular control cabinets that are tailor-made to your needs and specifications. Individual components are bundled together to form complete functional modules are premounted onto a mounting plate.

One simple action is all that is needed to mount the module in the control cabinet. All modules are fully tested and come complete with circuit diagrams, layouts, parts lists and 3D models.

## LQ Modular control cabinet

### Benefits at a glance:

- \_ Bundling of components in functional units
- \_ Reduction in the number of different parts
- \_ Modules can be used for multiple applications
- \_ Consistent and transparent development process
- \_ Machinery downtime is minimised thanks to systems that are 100% function tested
- \_ Modular construction offers significant advantages in terms of time, quality and costs



## **LQ System solutions:**

Ready to assemble and function-tested

With the LQ Group you have a partner who takes care of all the details for machine installation, liaises with suppliers and manufacturers and delivers the complete assembly to you so that it is ready to install.

This includes installation plans, precise documentation and everything that goes with it. This brings you advantages when it comes to quality, time and costs. To put it in a nutshell: talk to us about the installation technology and we will look after the rest.



### Solutions with system

From engineering to logistics, you can rely on our customer service and many years of experience in mechatronics.

Our systems are tailor-made to suit the particular application and movements of the machinery and are 100% tested to ensure maximum performance.

**Take advantage of our full range of products and services, or choose individual elements to suit your particular needs:**

- \_Design and development
- \_Cable routing in accordance with customer specifications
- \_Project management
- \_Manufacture and assembly
- \_Integration into customers' systems
- \_Documentation and modification services
- \_Logistics and delivery of the complete system ready to install



#### Benefits at a glance:

- \_We reduce the complexity for the customer in the field of electrical engineering
- \_We reduce the production times from days to hours
- \_We decrease the storage costs to zero
- \_We minimize the machine down times with complete systems tested 100%
- \_We reduce the part number of components by provide complete systems
- \_We reduce the time and effort and supplier supervision by provide complete systems
- \_Customers can respond flexibly to fluctuating orders
- \_Delivery includes high-quality documentation



# Thinking in functions cuts planning- and assembly costs

**Installation technology, tested to ensure that it works.** LQ supplies the assemblies, prepared for installation, on transport racks that are specific for the machines. This simplifies the goods-in procedure: only one complete part needs to be recorded rather than having to break this down into the many small items.



The delivery, which is compact and ready to install, also makes integration into the existing machine geometry easier. Clear marking of the source and target makes connection faster and easier in line with the principle of plug-and-play.

This reduces the time required for installation considerably – from several days to just a few hours.



## DISCLAIMER

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