

BEST CONTACTS FOR YOUR SUCCESS

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NETWORKING COMPONENTS

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COAXIAL CONNECTORS

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CABLE ASSEMBLIES

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PRECISION TURNED PARTS

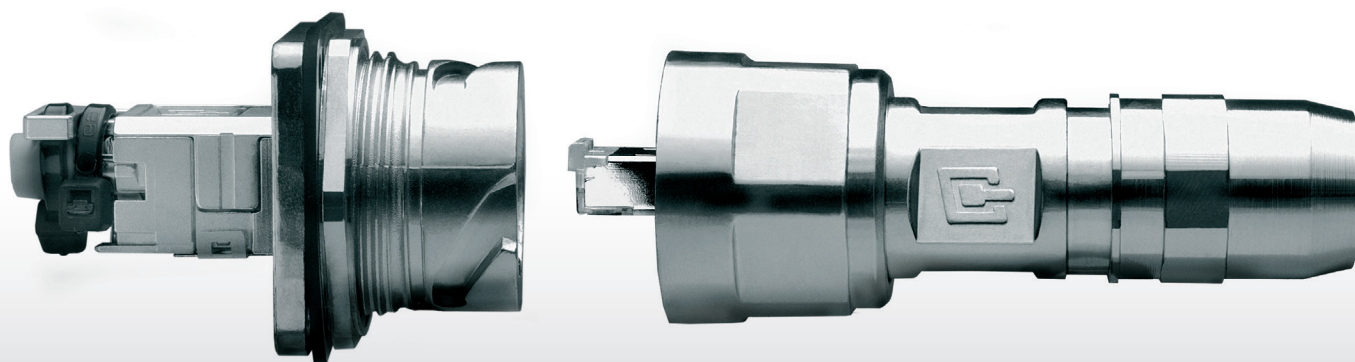
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PLASTIC INJECTION MOULD PARTS

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INDUSTRIAL ELECTRONICS

## The Future of Industrial Connectors



DataVoice

# STX-Industry

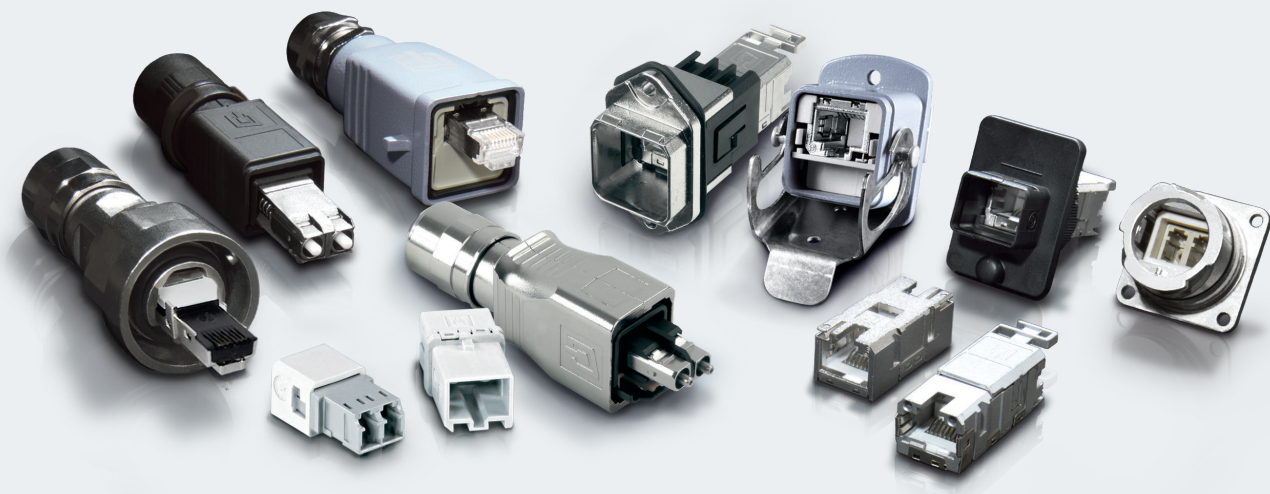
Industrial Connector Platform

# The revolutionary platform for industrial connectors...

Whether it involves factory, machinery or facility cabling, Variant 1, Variant 4, Variant 5 and Variant 14 industrial connectors from the STX platform together with Variant 6 connectors from Telegärtner offer you first class, standard-compliant Industrial Ethernet solutions.

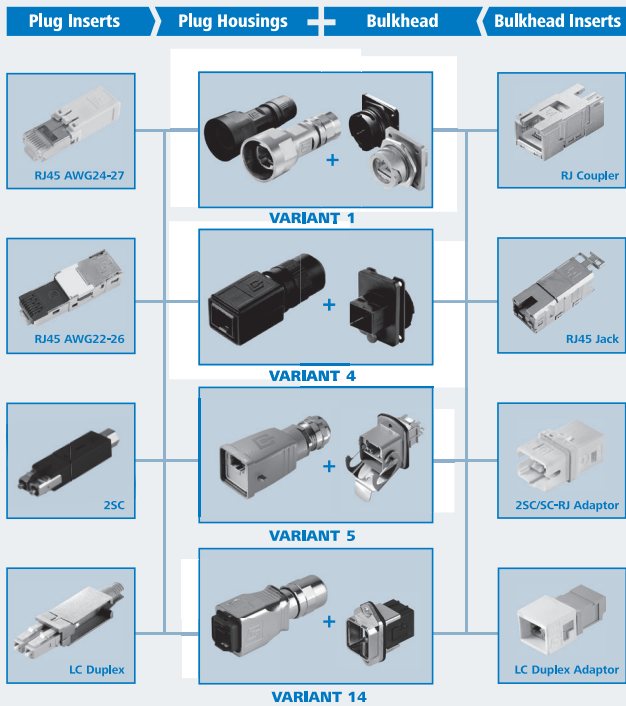
One reason for this is their resistance to the stresses encountered in industrial environments. A second reason is their modularity: there's nothing like STX where you can equip protective housings with such an unlimited variety of plug or bulkhead inserts.

## The right combination for every specification: the modular STX connector system.

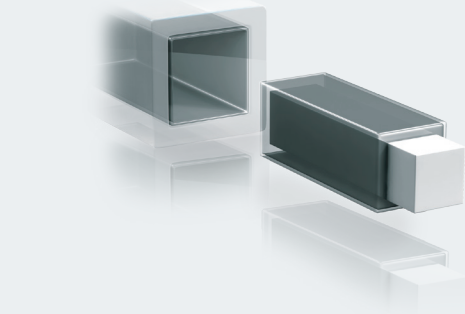


### Platform concept

Telegärtner STX: powered by **STEADYTEC®**



The **STEADYTEC®** platform concept permits inserts of uniform dimensions to be used in different housings.



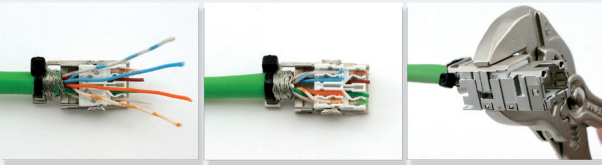
With STX connectors based on **STEADYTEC®**, Telegärtner points the way to the future of connection technology in the area of data, power and signal transmission. **STEADYTEC®** is the only technology which meets all internationally applicable standards and specifications thus forming the reliable, simple, fast and solutions-oriented foundation for STX.

# ... with significant advantages for field assembly

Field assembly in industrial sites frequently involves difficult to reach locations and additional stresses resulting from dirt. Complicated components which must be assembled on site not only make the installer's task more difficult but also contain the hidden potential for wrong connection

or incorrect assembly. Telegärtner has taken up this challenge and, with STX, has developed a reliable Ethernet solution whose installation and assembly is simpler, more secure and, above all, requires no special tools.

## Simpler, more secure, smarter: handling and field assembly with STX



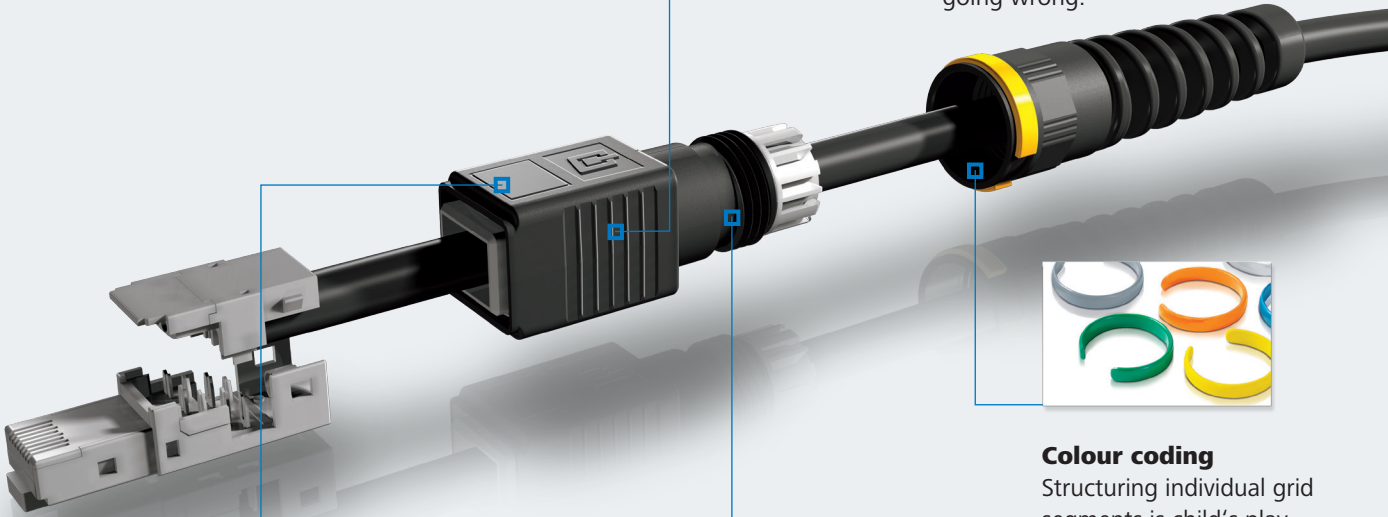
### Insert cable – press together – that's it:

That's how easy cable assembly is with Telegärtner STX: thanks to the integrated Cat.6A lead management and optimised IDCs.



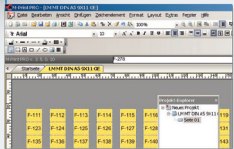
### Pre-fitted housings and inserts

Simple, because everything is pre-fitted. For the user, this means there are fewer individual parts, there is less time involved, and there is less likelihood of anything going wrong.



### Colour coding

Structuring individual grid segments is child's play with these markings.



### Labeling

All the necessary information at a glance: relevant information is printed straight on to a waterproof label by a PC before being attached to the plug housing.



### Cable seal and strain relief

The plug housing is slid over the cable, the cable gland is attached and everything is already sealed tight, even in the case of thin and thick cables.

Variant 1

Plug and Bulkhead Sets



| RJ45 Plug Sets                                                                     | Order no.   |             | Description                                     | Solid/Stranded | Remarks                                 |
|------------------------------------------------------------------------------------|-------------|-------------|-------------------------------------------------|----------------|-----------------------------------------|
|                                                                                    | Metal       | Plastic     |                                                 |                |                                         |
|  | J80026A0005 | J80026A0009 | STX V1 RJ45 plug set Cat.6 <sub>A</sub>         | AWG24-27       | without bend protection                 |
|                                                                                    | J80026A0006 | J80026A0010 | STX V1 RJ45 plug set Cat.6 <sub>A</sub>         | AWG24-27       | with bend protection                    |
|                                                                                    | J80026A0007 | J80026A0011 | STX V1 RJ45 plug set Cat.6 Class E <sub>A</sub> | AWG22-26       | without bend protection, field assembly |
|                                                                                    | J80026A0008 | J80026A0012 | STX V1 RJ45 plug set Cat.6 Class E <sub>A</sub> | AWG22-26       | with bend protection, field assembly    |

| FO Plug Sets                                                                        | Order no.   |             | Description        | Connector type | Fiber type | Remarks                 |
|-------------------------------------------------------------------------------------|-------------|-------------|--------------------|----------------|------------|-------------------------|
|                                                                                     | Metal       | Plastic     |                    |                |            |                         |
|  | J88083A0008 | J88083A0014 | STX V1 FO plug set | 2SC            | Singlemode | without bend protection |
|                                                                                     | J88083A0009 | J88083A0015 | STX V1 FO plug set | 2SC            | Singlemode | with bend protection    |
|                                                                                     | J88083A0006 | J88083A0012 | STX V1 FO plug set | 2SC            | Multimode  | without bend protection |
|                                                                                     | J88083A0007 | J88083A0013 | STX V1 FO plug set | 2SC            | Multimode  | with bend protection    |
|                                                                                     | J88083A0010 | J88083A0016 | STX V1 FO plug set | 2SC            | POF        | without bend protection |
|                                                                                     | J88083A0011 | J88083A0017 | STX V1 FO plug set | 2SC            | POF        | with bend protection    |
|  | J88073A0006 | J88073A0010 | STX V1 FO plug set | LC Duplex      | Singlemode | without bend protection |
|                                                                                     | J88073A0007 | J88073A0011 | STX V1 FO plug set | LC Duplex      | Singlemode | with bend protection    |
|                                                                                     | J88073A0004 | J88073A0008 | STX V1 FO plug set | LC Duplex      | Multimode  | without bend protection |
|                                                                                     | J88073A0005 | J88073A0009 | STX V1 FO plug set | LC Duplex      | Multimode  | with bend protection    |

| RJ45 Bulkhead Sets                                                                  | Order no.   |             | Description         | Insert                                  |
|-------------------------------------------------------------------------------------|-------------|-------------|---------------------|-----------------------------------------|
|                                                                                     | Metal       | Plastic     |                     |                                         |
|  | J80020A0001 | J80020A0003 | STX V1 bulkhead set | RJ45 coupler Cat.6 Class E <sub>A</sub> |
|                                                                                     | J80020A0000 | J80020A0002 | STX V1 Bulkhead set | RJ45 jack A Cat.6 <sub>A</sub> *        |

| FO Bulkhead Sets                                                                    | Order no.   |             | Description         | Fiber type | Insert            |
|-------------------------------------------------------------------------------------|-------------|-------------|---------------------|------------|-------------------|
|                                                                                     | Metal       | Plastic     |                     |            |                   |
|  | J88084A0003 | J88084A0005 | STX V1 bulkhead set | Singlemode | 2SC/SC-RJ adaptor |
|                                                                                     | J88084A0002 | J88084A0004 | STX V1 bulkhead set | Multimode  | 2SC/SC-RJ adaptor |
|                                                                                     | J88074A0003 | J88074A0005 | STX V1 bulkhead set | Singlemode | LC Duplex adaptor |
|                                                                                     | J88074A0002 | J88074A0004 | STX V1 bulkhead set | Multimode  | LC Duplex adaptor |

| Outlets                                                                             | Order no.   | Description                    | Housing | Insert                            | Remarks                  |
|-------------------------------------------------------------------------------------|-------------|--------------------------------|---------|-----------------------------------|--------------------------|
|                                                                                     | J80023A0016 | STX V1 surface mounting outlet | plastic | RJ45 jack A Cat.6 <sub>A</sub> *  | including protection cap |
|                                                                                     | J80023A0017 | STX V1 surface mounting outlet | plastic | RJ45 jack B Cat.6 <sub>A</sub> ** | including protection cap |
|                                                                                     | J80023A0019 | STX V1 free coupling outlet    | plastic | RJ45 jack A Cat.6 <sub>A</sub> *  | including protection cap |
|  | J80023A0020 | STX V1 free coupling outlet    | plastic | RJ45 jack B Cat.6 <sub>A</sub> ** | including protection cap |

| Protection Caps                                                                     | Order no.   | Description                    | Remarks |
|-------------------------------------------------------------------------------------|-------------|--------------------------------|---------|
|  | H80030A0000 | STX V1 plug protection cap     | plastic |
|                                                                                     | H80030A0004 | STX V1 bulkhead protection cap | plastic |

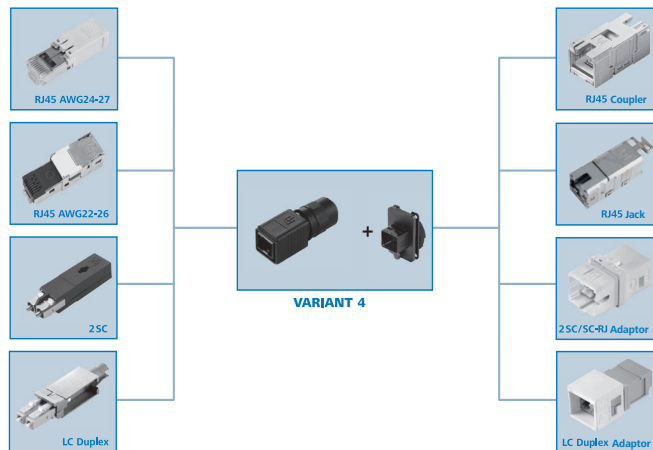
\*pin assignment acc. to T568A; \*\*pin assignment acc. to T568B



# Variant 4

## Plug and Bulkhead Sets

### Plug Inserts    Plug Housings    +    Bulkhead    Bulkhead Inserts



| RJ45 Plug Sets                                                                    | Order no.   | Description                                     | Solid/Stranded | Housing | Remarks                                 |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------|----------------|---------|-----------------------------------------|
|  | J80026A0013 | STX V4 RJ45 plug set Cat.6 <sub>A</sub>         | AWG24-27       | plastic | without bend protection                 |
|                                                                                   | J80026A0014 | STX V4 RJ45 plug set Cat.6 <sub>A</sub>         | AWG24-27       | plastic | with bend protection                    |
|                                                                                   | J80026A0015 | STX V4 RJ45 plug set Cat.6 Class E <sub>A</sub> | AWG22-26       | plastic | without bend protection, field assembly |
|                                                                                   | J80026A0016 | STX V4 RJ45 plug set Cat.6 Class E <sub>A</sub> | AWG22-26       | plastic | with bend protection, field assembly    |

| FO Plug Sets                                                                        | Order no.   | Description        | Housing | Connector type | Fiber type | Remarks                 |
|-------------------------------------------------------------------------------------|-------------|--------------------|---------|----------------|------------|-------------------------|
|  | J88083A0002 | STX V4 FO plug set | plastic | 2SC            | Singlemode | without bend protection |
|                                                                                     | J88083A0003 | STX V4 FO plug set | plastic | 2SC            | Singlemode | with bend protection    |
|                                                                                     | J88083A0000 | STX V4 FO plug set | plastic | 2SC            | Multimode  | without bend protection |
|                                                                                     | J88083A0001 | STX V4 FO plug set | plastic | 2SC            | Multimode  | with bend protection    |
|                                                                                     | J88083A0004 | STX V4 FO plug set | plastic | 2SC            | POF        | without bend protection |
|  | J88083A0005 | STX V4 FO plug set | plastic | 2SC            | POF        | with bend protection    |
|                                                                                     | J88073A0002 | STX V4 FO plug set | plastic | LC Duplex      | Singlemode | without bend protection |
|                                                                                     | J88073A0003 | STX V4 FO plug set | plastic | LC Duplex      | Singlemode | with bend protection    |
|                                                                                     | J88073A0000 | STX V4 FO plug set | plastic | LC Duplex      | Multimode  | without bend protection |
|                                                                                     | J88073A0001 | STX V4 FO plug set | plastic | LC Duplex      | Multimode  | with bend protection    |

| RJ45 Bulkhead Sets                                                                  | Order no.   | Description         | Housing | Insert                                  |
|-------------------------------------------------------------------------------------|-------------|---------------------|---------|-----------------------------------------|
|  | J80020A0005 | STX V4 bulkhead set | plastic | RJ45 coupler Cat.6 Class E <sub>A</sub> |
|                                                                                     | J80020A0004 | STX V4 bulkhead set | plastic | RJ45 jack A Cat.6 <sub>A</sub> *        |

| FO Bulkhead Sets                                                                    | Order no.   | Description         | Housing | Fiber type | Insert            |
|-------------------------------------------------------------------------------------|-------------|---------------------|---------|------------|-------------------|
|  | J88084A0001 | STX V4 bulkhead set | plastic | Singlemode | 2SC/SC-RJ adaptor |
|                                                                                     | J88084A0000 | STX V4 bulkhead set | plastic | Multimode  | 2SC/SC-RJ adaptor |
|                                                                                     | J88074A0001 | STX V4 bulkhead set | plastic | Singlemode | LC Duplex adaptor |
|                                                                                     | J88074A0000 | STX V4 bulkhead set | plastic | Multimode  | LC Duplex adaptor |

| Outlets                                                                             | Order no.   | Description                    | Housing | Insert                            | Remarks                  |
|-------------------------------------------------------------------------------------|-------------|--------------------------------|---------|-----------------------------------|--------------------------|
|  | J80023A0010 | STX V4 surface mounting outlet | plastic | RJ45 jack A Cat.6 <sub>A</sub> *  | including protection cap |
|                                                                                     | J80023A0011 | STX V4 surface mounting outlet | plastic | RJ45 jack B Cat.6 <sub>A</sub> ** | including protection cap |
|                                                                                     | J80023A0013 | STX V4 free coupling outlet    | plastic | RJ45 jack A Cat.6 <sub>A</sub> *  | including protection cap |
|                                                                                     | J80023A0014 | STX V4 free coupling outlet    | plastic | RJ45 jack B Cat.6 <sub>A</sub> ** | including protection cap |

| Protection Caps                                                                     | Order no.   | Description                    | Remarks |
|-------------------------------------------------------------------------------------|-------------|--------------------------------|---------|
|  | H80030A0001 | STX V4 plug protection cap     | plastic |
|                                                                                     | H80030A0005 | STX V4 bulkhead protection cap | plastic |

\*pin assignment acc. to T568A; \*\*pin assignment acc. to T568B

# Variant 5

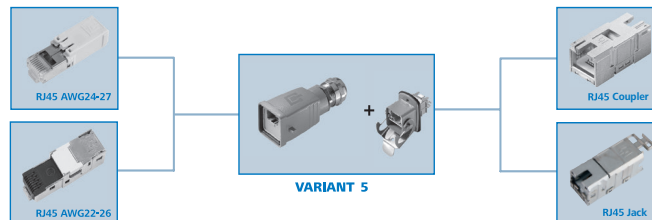
## Plug and Bulkhead Sets

Plug Inserts

Plug Housings

Bulkhead

Bulkhead Inserts



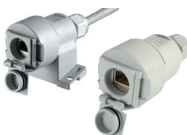
| RJ45 Plug Sets                                                                    | Order no.   | Description                                     | Solid/Stranded | Housing           | Remarks        |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------|----------------|-------------------|----------------|
|  | J80026A0017 | STX V5 RJ45 plug set Cat.6 <sub>A</sub>         | AWG24-27       | aluminium diecast |                |
|                                                                                   | J80026A0018 | STX V5 RJ45 plug set Cat.6 Class E <sub>A</sub> | AWG22-26       | aluminium diecast | field assembly |

| RJ45 Bulkhead Sets                                                                  | Order no.   | Description         | Insert                                  | Housing           |
|-------------------------------------------------------------------------------------|-------------|---------------------|-----------------------------------------|-------------------|
|  | J80020A0007 | STX V5 bulkhead set | RJ45 coupler Cat.6 Class E <sub>A</sub> | aluminium diecast |
|                                                                                     | J80020A0006 | STX V5 bulkhead set | RJ45 jack A Cat.6 <sub>A</sub> *        | aluminium diecast |

| Protection Caps                                                                     | Order no.   | Description                    | Housing           |
|-------------------------------------------------------------------------------------|-------------|--------------------------------|-------------------|
|  | H80030A0002 | STX V5 plug protection cap     | aluminium diecast |
|                                                                                     | H80030A0006 | STX V5 bulkhead protection cap | aluminium diecast |

# Variant 6

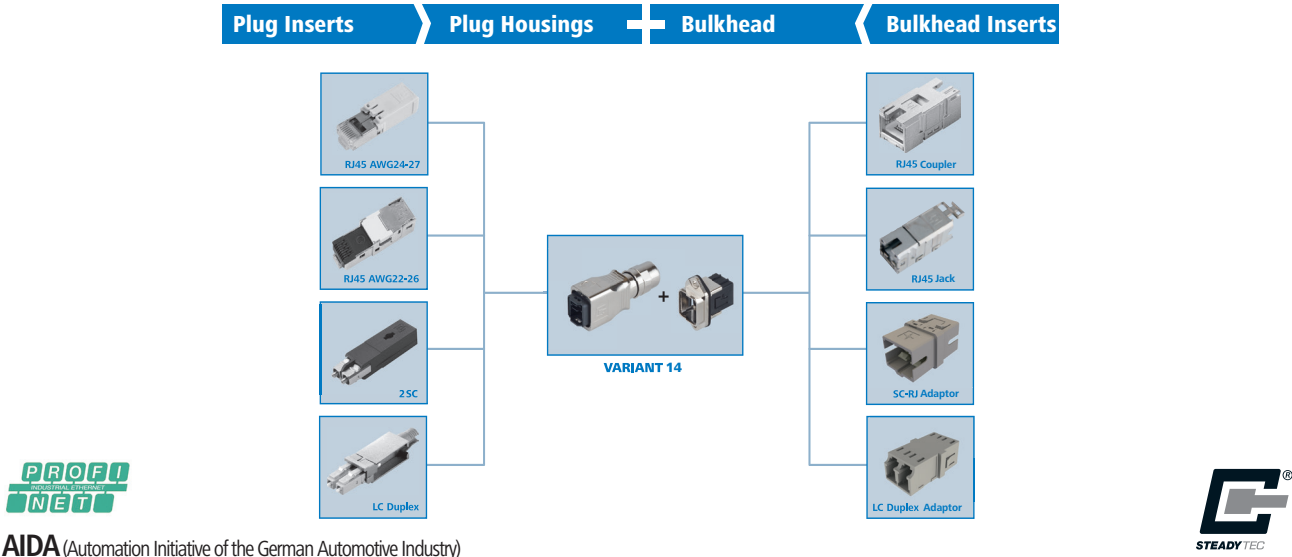
| RJ45 plug set                                                                       | Order no.   | Description                             | Solid/Stranded | Housing |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------|----------------|---------|
|  | J00026A0150 | STX V6 RJ45 plug set Cat.6 <sub>A</sub> | AWG24-27       | plastic |

| Outlets                                                                             | Order no.   | Description                    | Insert                       | Housing |
|-------------------------------------------------------------------------------------|-------------|--------------------------------|------------------------------|---------|
|  | J00020A0436 | STX V6 surface mounting outlet | RJ45 jack Cat.6 <sub>A</sub> | plastic |
|                                                                                     | J00020A0437 | STX V6 free coupling outlet    | RJ45 jack Cat.6 <sub>A</sub> | plastic |

| RJ45 Bulkhead Sets                                                                  | Order no.   | Description                                  | Insert                                   | Housing |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------|------------------------------------------|---------|
|  | J00020A0480 | STX V6 bulkhead set USB-keystone type A, f-f | USB-keystone                             | plastic |
|                                                                                     | J00020A0481 | STX V6 bulkhead set AMJ Module K             | AMJ Module K Cat.6 <sub>A</sub>          | plastic |
|                                                                                     | J00020A0483 | STX V6 bulkhead set AMJ Coupler K            | AMJ Coupler K Cat.6 Class E <sub>A</sub> | plastic |
|                                                                                     | J00020A0482 | STX V6 bulkhead set AMJ Coupler K            | AMJ Coupler K Cat.5e                     | plastic |

Variant 14

Plug and Bulkhead Sets

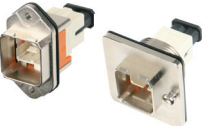
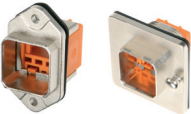


AIDA (Automation Initiative of the German Automotive Industry)

| RJ45 Plug Sets                                                                    | Order no.   | Description                                      | Solid/Stranded | Housing | Remarks                                 |
|-----------------------------------------------------------------------------------|-------------|--------------------------------------------------|----------------|---------|-----------------------------------------|
|  | J80026A0019 | STX V14 RJ45 plug set Cat.6 <sub>A</sub>         | AWG24-27       | Metal   | without bend protection                 |
|                                                                                   | J80026A0020 | STX V14 RJ45 plug set Cat.6 <sub>A</sub>         | AWG24-27       | Metal   | with bend protection                    |
|                                                                                   | J80026A0021 | STX V14 RJ45 plug set Cat.6 Class E <sub>A</sub> | AWG22-26       | Metal   | without bend protection, field assembly |
|                                                                                   | J80026A0022 | STX V14 RJ45 plug set Cat.6 Class E <sub>A</sub> | AWG22-26       | Metal   | with bend protection, field assembly    |

| FO Plug Sets                                                                        | Order no.   | Description         | Housing | Connector type | Fiber type | Remarks                 |
|-------------------------------------------------------------------------------------|-------------|---------------------|---------|----------------|------------|-------------------------|
|  | J88083A0024 | STX V14 FO plug set | Metal   | 25C            | Singlemode | without bend protection |
|                                                                                     | J88083A0025 | STX V14 FO plug set | Metal   | 25C            | Singlemode | with bend protection    |
|                                                                                     | J88083A0022 | STX V14 FO plug set | Metal   | 25C            | Multimode  | without bend protection |
|                                                                                     | J88083A0023 | STX V14 FO plug set | Metal   | 25C            | Multimode  | with bend protection    |
|                                                                                     | J88083A0026 | STX V14 FO plug set | Metal   | 25C            | POF        | without bend protection |
|                                                                                     | J88083A0027 | STX V14 FO plug set | Metal   | 25C            | POF        | with bend protection    |
|  | J88073A0014 | STX V14 FO plug set | Metal   | LC Duplex      | Singlemode | without bend protection |
|                                                                                     | J88073A0015 | STX V14 FO plug set | Metal   | LC Duplex      | Singlemode | with bend protection    |
|                                                                                     | J88073A0012 | STX V14 FO plug set | Metal   | LC Duplex      | Multimode  | without bend protection |
|                                                                                     | J88073A0013 | STX V14 FO plug set | Metal   | LC Duplex      | Multimode  | with bend protection    |

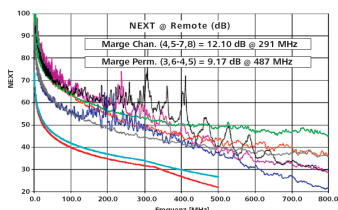
| RJ45 Bulkhead Sets                                                                 | Order no.   | Description                   | Housing | Insert                                  | Remarks                     |
|------------------------------------------------------------------------------------|-------------|-------------------------------|---------|-----------------------------------------|-----------------------------|
|  | J80020A0010 | STX V14 standard bulkhead set | Metal   | RJ45 coupler Cat.6 Class E <sub>A</sub> | rectangular mounting cutout |
|                                                                                    | J80020A0011 | STX V14 standard bulkhead set | Metal   | RJ45 jack A Cat.6 <sub>A</sub> *        | rectangular mounting cutout |
|                                                                                    | J80020A0012 | STX V14 central bulkhead set  | Metal   | RJ45 coupler Cat.6 Class E <sub>A</sub> | round mounting cutout       |
|                                                                                    | J80020A0013 | STX V14 central bulkhead set  | Metal   | RJ45 jack A Cat.6 <sub>A</sub> *        | round mounting cutout       |

| FO Bulkhead Sets                                                                    | Order no.   | Description                   | Housing | Fiber type | Insert        | Remarks                     |
|-------------------------------------------------------------------------------------|-------------|-------------------------------|---------|------------|---------------|-----------------------------|
|   | J88084A0007 | STX V14 standard bulkhead set | Metal   | Singlemode | SC-RJ adaptor | rectangular mounting cutout |
|                                                                                     | J88084A0006 | STX V14 standard bulkhead set | Metal   | Multimode  | SC-RJ adaptor | rectangular mounting cutout |
|                                                                                     | J88084A0009 | STX V14 central bulkhead set  | Metal   | Singlemode | SC-RJ adaptor | round mounting cutout       |
|                                                                                     | J88084A0008 | STX V14 central bulkhead set  | Metal   | Multimode  | SC-RJ adaptor | round mounting cutout       |
|  | J88074A0007 | STX V14 standard bulkhead set | Metal   | Singlemode | LC Duplex ad. | rectangular mounting cutout |
|                                                                                     | J88074A0006 | STX V14 standard bulkhead set | Metal   | Multimode  | LC Duplex ad. | rectangular mounting cutout |
|                                                                                     | J88074A0009 | STX V14 central bulkhead set  | Metal   | Singlemode | LC Duplex ad. | round mounting cutout       |
|                                                                                     | J88074A0008 | STX V14 central bulkhead set  | Metal   | Multimode  | LC Duplex ad. | round mounting cutout       |

| Protection Caps                                                                     | Order no.   | Description                     | Remarks |
|-------------------------------------------------------------------------------------|-------------|---------------------------------|---------|
|  | H80030A0003 | STX V14 plug protection cap     | plastic |
|                                                                                     | H80030A0007 | STX V14 bulkhead protection cap | plastic |

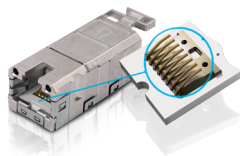
\*pin assignment acc. to T568A; \*\*pin assignment acc. to T568B

# The performance advantages of STX connectors at a glance



## Outstanding transmission rate

Data transfer rates from 10 MB to 10 GB (and, with fiber optics, up to 40 GB) is perfectly suited to modern, 10 Gigabit networks and, thanks to high link reserves, also meets the most stringent requirements with regard to reporting and process control.



## Improved contact technology

Reduced mass and greater resilience make the STX contact springs unsusceptible to vibration, shock and mechanical loads and ensure the highest level of contact security under even extreme conditions. Shield bonding is realised with four rather than two contact points.



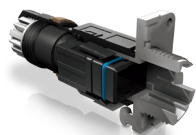
## Housing technology

The IP67 classified housings offer optimal protection against water and dirt while simultaneously guaranteeing the easiest possible handling – even after years of use. In addition, they are totally compliant with international standards (IEC 61076-3-106 & IEC 61076-3-117).



## Comprehensive material selection

In the manufacture of the STX housings, Telegärtner places its faith in plastics and metals which are resistant to bases, acids, grease and oils and are uniformly reliable from -40 °C to 70 °C.



## Seal technology

The plug housings and bulkheads are water- and dustproof acc. to IP67. The employed seals are characterised by minimal abrasion, optimal handling as well as maximum dimensional stability and impermeability.



## Simply cleverer: straightforward mounting

With STX the user can choose between central screw-on mounting for standard wall connections or a version with 4 screws for exterior mounting. Added to this are components which permit fast installation and maintenance on-site without the need for special tools. Field assembly plug and bulkhead inserts allow easy and fast assembly.

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