



Y-CON AND STANDARD RJ45 INDUSTRIAL CONNECTOR SYSTEM

CONNECTOR SOLUTIONS

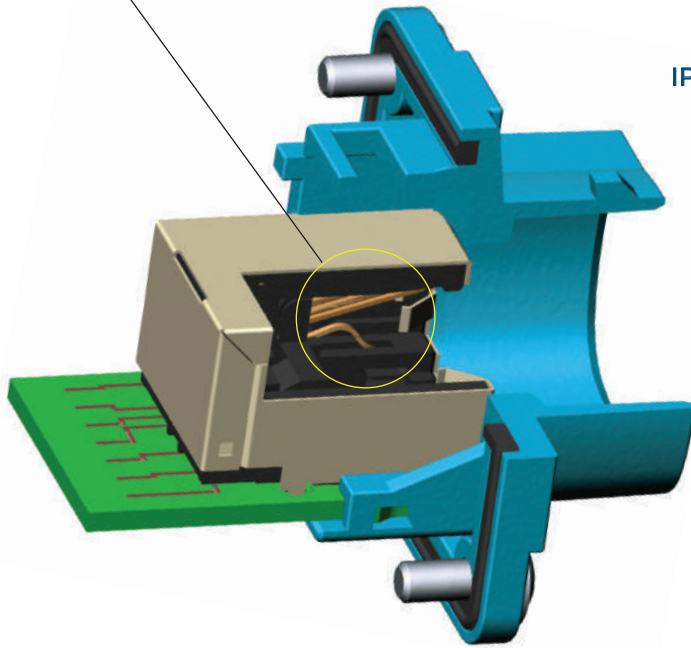


Power Contacts

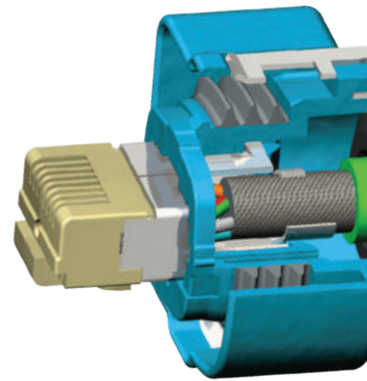
The Y-ConRJ45 connector system with or without EMI protection in full metal or plastic. Our design offers a solution for harsh environments with the protection type IP20 or IP67/68/69K.

The Y-ConRJ45 series captivates by following features:

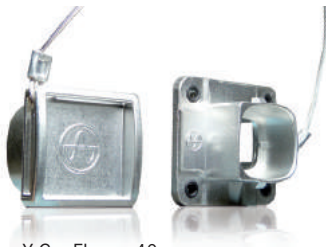
- Power supply with 2 additional contacts up to 2.1A whilst maintaining the RJ45 standard
- Specially shielded plugs and jacks also with magnetics
- Flange is usable as modular platform for all Y-Con PCB mounted coupler and keystone jacks
- Warranted fully backward compatibility of the components



IP67 / IP68 / IP69K PROTECTION



Y-ConFlange-10



Y-ConFlange-40



Y-ConAS-24



Y-ConJack-* 1



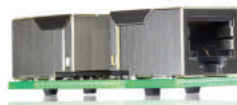
Y-ConJack-* 1-3C-*



Y-ConJack-3* /
Y-ConJack-6* (CAT6_A)



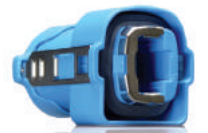
Y-ConJack-5*



Y-ConJack-**



Y-ConCover-10

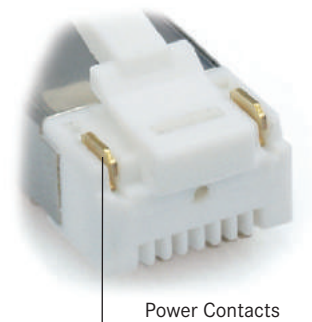


Y-ConCover-10E
(EMI version)

Das Y-ConRJ45 Steckverbindersystem mit/ohne EMV Schutz in Kunststoff oder Metall bietet Lösungsmöglichkeiten für raue Umgebungen mit der Schutzart IP20 oder IP67/68/69K.

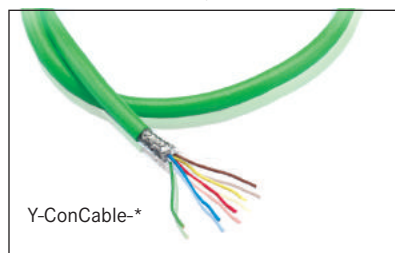
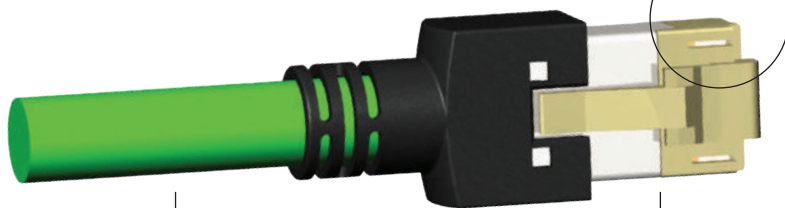
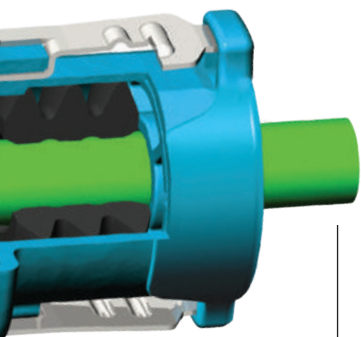
Die RJ45 Serie besteht durch folgende Eigenschaften:

- Spannungsversorgung mit 2 zusätzlichen Kontakten bis zu 2.1A integriert im RJ45-Interface
- Speziell geschirmte Kabelstecker und Buchsen, auch mit Magnetics
- Flansch eignet sich als modulare Plattform für auf Platine gelötete Verbindungsbuchsen und Keystone-Buchsen
- Volle Rückwärtskompatibilität der Komponenten gewährleistet



Power Contacts

IP20 PROTECTION



Y-ConCable-*



CYCRJ60*
(Cable Assembly)



Y-ConPlug-**



Y-ConAS-11



Y-ConAS-12



Y-ConCover-20



Y-ConPrefixPlug



Y-ConPlug-**



Y-ConCover-40



Y-ConCover-40E
(EMI version)



Y-ConAS-21



Y-ConCover-30

IP20 Locking System



Y-ConIP20Lock-10



Y-ConIP20Lock-10



Y-ConIP20HFR-*0



Y-ConC-R**20-*

PROTECTION STANDARD

The approved Yamaichi Y-Con series designed for toughest industrial applications consists of a modular, flexible and extendable product line. These series fulfils the stringent IP20, IP67, IP68, IP69K (EN60529 and DIN40050) environmental protection standards.

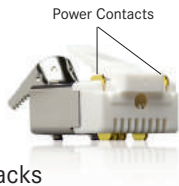


SCHUTZART NACH IP67, IP68 UND IP69K

Die bewährte Yamaichi Y-Con Serie ist für härteste Industrieanwendungen entwickelt und besteht aus einer modularen, flexiblen und erweiterbaren Produktlinie. Die Serie erfüllt die anspruchsvollen Standards der Schutzarten IP20, IP67, IP68, IP69K (EN60529 und DIN40050).

POWER SUPPLY AND DATA TRANSMISSION

The Y-ConRJ45 is the unique industrial grade connector system which is based on RJ45-specification with additional integrated contacts for power supply. In amendment to our Y-Con RJ45 series you will also find other RJ45 products for your standard applications. With plugs, jacks and patch-cables you will find a wide range of high quality products to fulfill your needs.



STROMVERSORGUNG UND DATENÜBERTRAGUNG

Der Y-ConRJ45 ist das einzige industrietaugliche Steckverbindersystem, das auf der RJ45-Spezifikation basierend noch zusätzliche voll integrierte Kontakte für die Stromversorgung mitführt. In Ergänzung zu unserer Y-Con RJ45 Serie finden Sie für Ihre Standardanwendungen noch weitere RJ45 Produkte. Ein breites Portfolio von qualitativ hochwertigen Steckern, Buchsen und Patchkabeln bietet Ihnen eine entsprechende Auswahl.

FAST AND EASY FIELD ASSEMBLY

The Y-Con product line consists of a large accessories program as well as fitting tools which allow easy field assembly or effective achievement of a repair work.



SCHNELLE UND EINFACHE MONTAGE AM EINSATZORT

Die Y-Con Produktlinie umfasst ein breites Zubehörprogramm sowie passendes Verarbeitungswerkzeug. Damit ist eine einfache und schnelle Montage vor Ort sowie ein effektives Ausführen von Reparaturarbeiten möglich.

HIGH/LOW TEMPERATURE AND SHOCK RESISTANT

Many products of the Y-Con series are for an operating temperature range of -40°C ~ + 120°C through the use of high quality materials. The IP6*- connector system was tested successfully against shock and vibration up to 50g (acc. DIN IEC 68-2-6). The IP20 locking mechanism of Y-Con withstands vibration-plagued applications and guarantees highest plugging security.

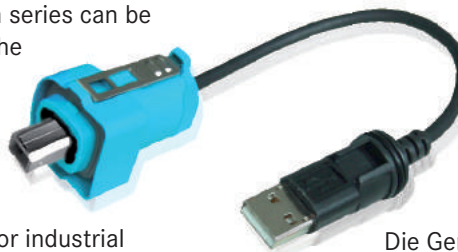


TEMPERATURBESTÄNDIG UND SCHOCKRESISTENT

Viele der Produkte der Y-Con Serie sind durch die Verwendung von hochwertigen Materialien für Umgebungstemperaturen von -40°C bis +120°C geeignet. Das IP6*-Stecksystem ist erfolgreich auf Schock und Vibration bis 50g getestet worden (nach DIN IEC 68-2-6). Der IP20 Verriegelungsmechanismus der Y-Con Serie widersteht dabei störenden Vibrationen und garantiert höchste Stecksicherheit.

MODULAR SYSTEM EXPANSION

The modular concept of the Y-Con series can be expanded any time as and when the application demands. Connection as USB-A and USB-B can be adapted, exchanged or replaced in the same IP6* housing without expensive re-work costs. The Y-Con peripheral equipment for industrial environments follow the same idea, to design a flexible system expansion as effective as possible.



MODULARE SYSTEMERWEITERUNG

Das modulare Konzept der Y-Con Serie kann jederzeit erweitert werden wenn die Anwendung es erfordert. Verbindungen wie USB-A und USB-B können ohne kostspielige Nachrüstung in das gleiche IP6*-Gehäuse angepasst, ausgetauscht oder hinzugefügt werden. Die Geräte der Y-Con Peripherie für industrielle Umgebungen folgen ebenfalls dieser Idee und machen eine flexible Systemerweiterung effektiv möglich.

Y-ConRJ45 INDUSTRIAL SYSTEM OVERVIEW	inside cover
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PART NUMBER DETAILS	back cover
Y-ConUSB SYSTEM OVERVIEW	back cover



PART NUMBER

Y-ConCover - 10 - * - *

Series	
Design Number	
No Mark = Blue B = Black	
No Mark = Std. LT = Low Temp.	

SERIES Y-ConCover

DESCRIPTION

IP67/68/69K cover for self assembly with Y-Con plugs and cables, complete with latches, seals and terminator cap

IP67/68/69K-Steckergehäuse zur Selbstmontage mit Y-Con Kabelsteckern und Kabeln, komplett mit Rasthaken, Dichtungen und Abschlusskappe

MATERIAL

Body PBT, UL94V-0
Gehäuse

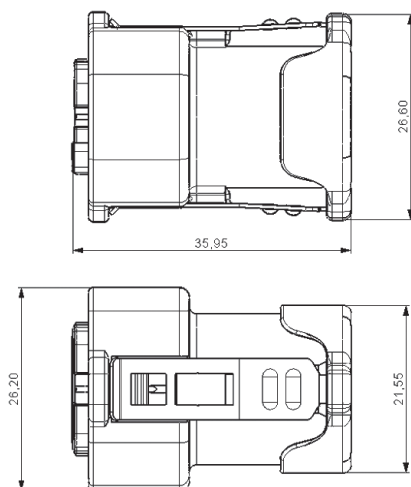
Seal FKM (Viton®) or HNBR
Dichtung

Fixing clips Stainless steel
Rasthaken

SPECIFICATIONS

Operating Temp. Std. -20°C ~ +120°C
Betriebstemp. LT -40°C ~ +120°C

Y-ConCover OUTLINE DIMENSIONS



ACCESSORIES PART NO.: Y-ConCover-30

DESCRIPTION

Metal cover for retro-fitting to Y-ConCover-10-* offering increased mechanical stability

Metallisches Schutzgehäuse zur Nachrüstung auf Y-ConCover-10-*, für erhöhte mechanische Stabilität



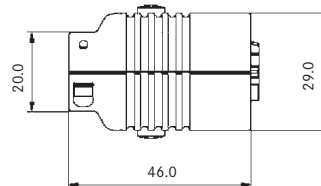
MATERIAL

Body + Buttons Die-cast zinc
Gehäuse

Screws Stainless Steel
Schrauben

SPECIFICATIONS

Operating Temp. -20°C ~ +120°C
Betriebstemp.



ACCESSORIES PART NO.: Y-ConAS-21

DESCRIPTION

IP67 protective transport cap for Y-ConCover-10-* / Y-ConCover-40-*

IP67-Transportschutzabdeckung für Y-ConCover-10-* / Y-ConCover-40-*



MATERIAL

Body PE (Transparent white)
Gehäuse

SPECIFICATIONS

Operating Temp. -20°C ~ +80°C
Betriebstemp.

Part Number	Colour	Low Temperature Type
Y-ConCover-10	Blue	No
Y-ConCover-10-B	Black	No
Y-ConCover-10-LT	Blue	Yes
Y-ConCover-10-B-LT	Black	Yes



PART NUMBER

Y-ConCover - 10 - * - * - E

Series	
Design Number	
No Mark = Blue B = Black	
No Mark = Std. LT = Low Temp.	
E = EMI Version	

SERIES Y-ConCover

DESCRIPTION

IP67/68/69K cover EMI version for self assembly with Y-Con plugs and cables, complete with latches, seals and terminator cap. Integrated EMI spring for improved EMI protection

IP67/68/69K-Steckergehäuse EMV Version zur Selbstmontage mit Y-Con Kabelsteckern und Kabeln, komplett mit Rasthaken, Dichtungen und Abschlusskappe. Integrierte EMV Feder für verbesserten EMV Schutz

MATERIAL

Body PBT, UL94V-0
Gehäuse

Seal FKM (Viton®) or HNBR
Dichtung

Fixing clips Stainless steel
Rasthaken

EMI Spring Brass
EMV Feder

SPECIFICATIONS

Operating Temp. Std. -20°C ~ +120°C
Betriebstemp. LT -40°C ~ +120°C

ACCESSORIES PART NO.: Y-ConCover-30

DESCRIPTION

Metal cover for retro-fitting to Y-ConCover-10-* offering increased mechanical stability

Metallisches Schutzgehäuse zur Nachrüstung auf Y-ConCover-10-*, für erhöhte mechanische Stabilität



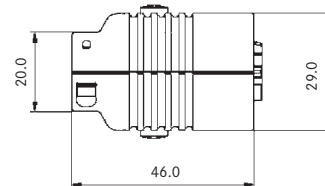
MATERIAL

Body + Buttons Die-cast zinc
Gehäuse

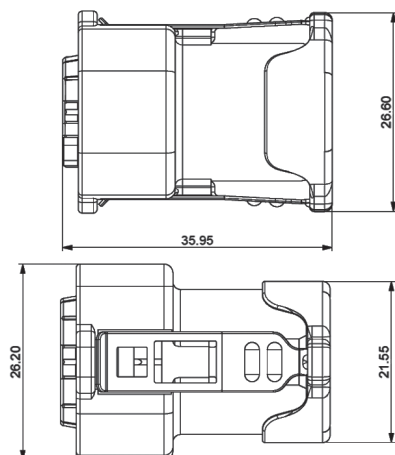
Screws Stainless Steel
Schrauben

SPECIFICATIONS

Operating Temp. -20°C ~ +120°C
Betriebstemp.



Y-ConCover OUTLINE DIMENSIONS



ACCESSORIES PART NO.: Y-ConAS-21

DESCRIPTION

IP67 protective transport cap for Y-ConCover-10-* / Y-ConCover-40-*

IP67-Transportschutzabdeckung für Y-ConCover-10-* / Y-ConCover-40-*



MATERIAL

Body PE (Transparent white)
Gehäuse

SPECIFICATIONS

Operating Temp. -20°C ~ +80°C
Betriebstemp.

Part Number	Colour	Low Temperature Type	EMI Spring
Y-ConCover-10-E	Blue	No	Yes
Y-ConCover-10-B-E	Black	No	Yes
Y-ConCover-10-LT-E	Blue	Yes	Yes
Y-ConCover-10-B-LT-E	Black	Yes	Yes



PART NUMBER

Y-ConCover - 40 - **

Series	
Design Number	
No Mark = Std. LT = Low Temp.	

SERIES Y-ConCover

DESCRIPTION

IP67/68/69K metal cover for self-assembly with Y-Con plugs and cables, with Twist-Lock open and close mechanism, complete with latches, seals and terminator cap

IP67/68/69K-Metallgehäuse (Twist-Lock)
mit Schraubverschluss zur Selbstmontage mit Y-Con
Kabelsteckern und Kabeln, komplett mit Rasthaken,
Dichtungen und Abschlusskappe

MATERIAL

Body Gehäuse	Die-cast zinc
Seal Dichtung	FKM (Viton®) or HNBR
Fixing clips Rasthaken	Stainless steel

SPECIFICATIONS

Operating Temp.	Std.	- 20°C ~ +120°C
Betriebstemp.	LT	- 40°C ~ +120°C

ACCESSORIES PART NO.: Y-ConAS-21

DESCRIPTION

IP67 protective transport cap
for Y-ConCover-10-* /
Y-ConCover-40-*

IP67-Transportschutzabdeckung für
Y-ConCover-10-* / Y-ConCover-40-*



MATERIAL

Body Gehäuse	PE
Colour Farbe	Transparent white

SPECIFICATIONS:

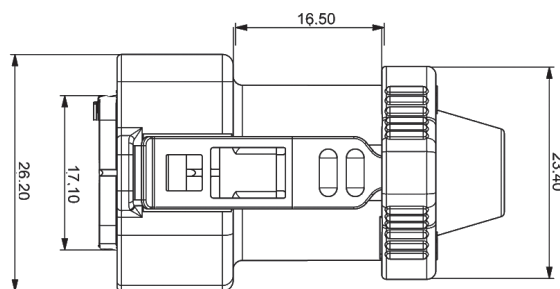
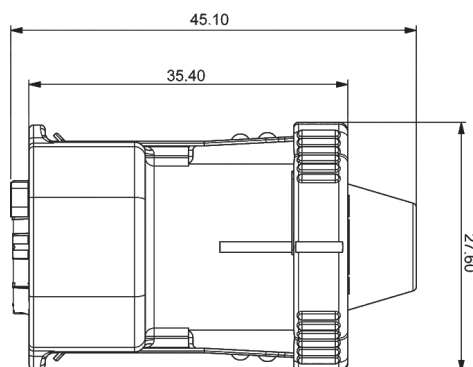
Operating Temp.	-20°C ~ +80°C
Betriebstemp.	

INFO

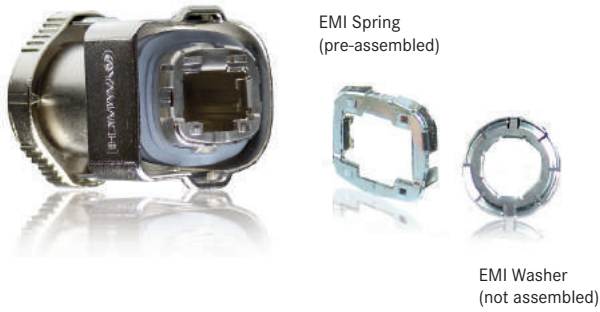
Information about Y-Con overmolded cable assembly
version see page 21

Informationen zu Y-Con umspritzte Kabelkonfektion
finden Sie auf Seite 21

Y-ConCover OUTLINE DIMENSIONS



Part Number	Low Temperature Type
Y-ConCover-40	No
Y-ConCover-40-LT	Yes



PART NUMBER

Y-ConCover - 40 - ** - €

Series	
Design Number	
No Mark = Std. LT = Low Temp.	
E = EMI Version	

SERIES Y-ConCover

DESCRIPTION

IP67/68/69K metal cover EMI version for self-assembly with Y-Con plugs and cables, with Twist-Lock open and close mechanism, complete with latches, seals and terminator cap. Assembled EMI spring and additional EMI washer for improved EMI protection

IP67/68/69K-Metallgehäuse EMV (Twist-Lock) mit Schraubverschluss zur Selbstmontage mit Y-Con Kabelsteckern und Kabeln, komplett mit Rasthaken, Dichtungen und Abschlusskappe. Assemblierte EMV Feder plus zusätzliche EMV Scheibe für verbesserten EMV Schutz

MATERIAL

Body Gehäuse	Die-cast zinc
Seal Dichtung	FKM (Viton®) or HNBR
Fixing clips Rasthaken	Stainless steel
EMI Spring EMV Feder	Phosphor Bronze
EMI Washer EMV Scheibe	Phosphor Bronze

SPECIFICATIONS

Operating Temp.	Std.	-20°C ~ +120°C
Betriebstemp.	LT	-40°C ~ +120°C

ACCESSORIES PART NO.: Y-ConAS-21

DESCRIPTION

IP67 protective transport cap for Y-ConCover-10-* / Y-ConCover-40-*



IP67-Transportschutzabdeckung für Y-ConCover-10-* / Y-ConCover-40-*

MATERIAL

Body Gehäuse	PE
Colour Farbe	Transparent white

SPECIFICATIONS:

Operating Temp.	-20°C ~ +80°C
Betriebstemp.	

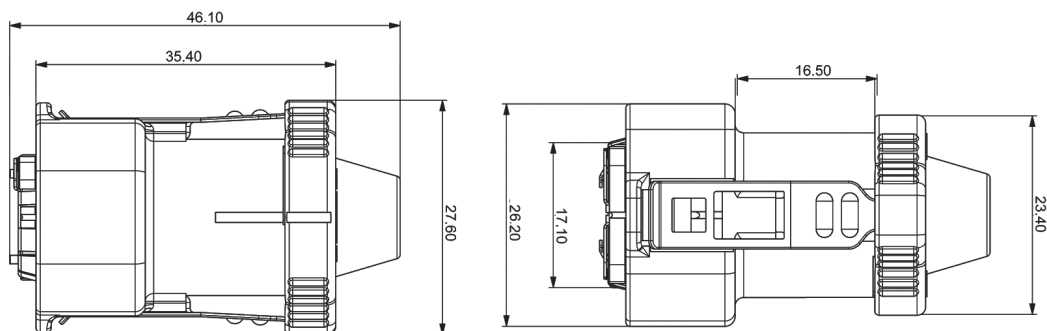
INFO

Information about Y-Con overmolded cable assembly version see page 21

Informationen zu Y-Con umspritzte Kabelkonfektion finden Sie auf Seite 21



Y-ConCover OUTLINE DIMENSIONS



Part Number	Low Temperature Type	EMI Spring
Y-ConCover-40-E	No	Yes
Y-ConCover-40-LT-E	Yes	Yes



PART NUMBER

Y-ConFlange - 10 - *

Series	
Design Number	
No Mark = Blue B = Black	

SERIES Y-ConFlange

DESCRIPTION

Universal mounting flange with an integrated 2C seal (also in the screw area) to ensure IP6* protection when mounted with Y-ConCover-10-* and Y-ConCover-40-*

Universeller Gehäuseflansch mit integrierter 2K-Dichtung (auch im Schraubbereich). Damit sind für Y-ConCover-10-* und Y-ConCover-40-* im montierten Zustand die Schutzarten IP6* gewährleistet

MATERIAL

Flange Body PBT, UL94V-0
Flanschgehäuse

Flange Seal TPE, UL94 HB
Flanschdichtung V

SPECIFICATIONS

Operating Temp. -40°C ~ +120°C
Betriebstemp.

ACCESSORIES PART NO.: Y-ConAS-24

PART NO.: Y-ConAS-24-LT ¹⁾

¹⁾ LT = Low temperature version with HNBR seal

DESCRIPTION

IP67/68 protective cover for Y-ConFlange-10-*

IP67-Schutzabdeckung für
Y-ConFlange-10-*



MATERIAL

Body PE
Gehäuse

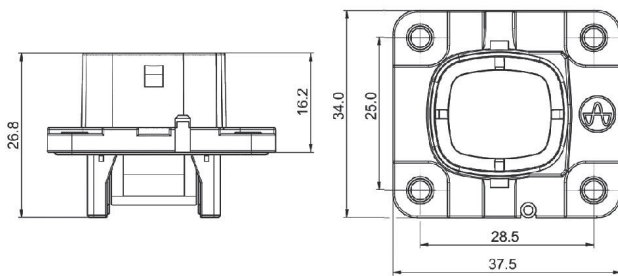
Colour Transparent white
Farbe

Seal FKM (Viton®) or HNBR
Dichtung

SPECIFICATIONS

Operating Temp.	Std.	- 20°C ~ +85°C
Betriebstemp.	LT	- 40°C ~ +85°C

Y-ConFlange OUTLINE DIMENSIONS



ACCESSORIES PART NO.:Y-ConAS-25

DESCRIPTION

Flange-head screws M3 Thread
Schrauben (M3-Gewinde)

MATERIAL

Steel



ACCESSORIES PART NO.: Y-ConFlange-Punch-1

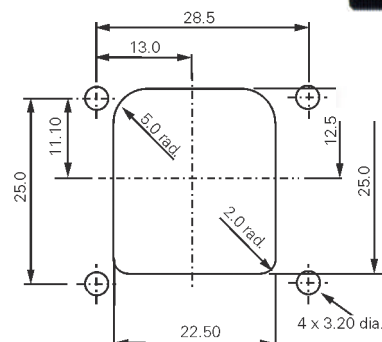
DESCRIPTION

Manual punch to stamp out the Y-ConFlange-** panel cut with matrix for 4 screw holes.
For V2A plate metal up to 2.0mm (Rockwell 56-58)

Manueller Blechlocher für das Ausstanzen
des Ausschnittes für Y-ConFlange-** mit Raster
für 4 Schraubenbohrungen. Für V2A Metallblech
bis 2,0 mm (Rockwell 56-58)

MATERIAL

Steel (black)



Panel Cut Dim.

(incl. in Rittal Library)

Part Number	Colour
Y-ConFlange-10	Blue
Y-ConFlange-10-B	Black



PART NUMBER

Y-ConFlange - 40 - *

Series

Design Number

No Mark = Std. C = With Cap

SERIES Y-ConFlange

DESCRIPTION:

Full metal mounting flange, with integrated seal (also in the screw area) to ensure IP6* protection when mounted with Y-ConCover-10-* and Y-ConCover-40-*. Also available with assembled IP6* protection cap

Vollmetal Gehäuseflansch mit integrierter Dichtung (auch im Schraubbereich). Damit sind für Y-ConCover-10-* und Y-ConCover-40-* im montierten Zustand die Schutzarten IP6* gewährleistet. Auch mit assemblierter IP6* Schutzkappe verfügbar

MATERIAL

Flange Body Die-cast zinc
Flanschgehäuse

Flange Seal HNBR
Flanschdichtung

Protection Cap Die-cast Zinc
Schutzkappe

Seal HNBR
Dichtung

Wire Rope Steel / Aluminium
Draht (length = 180mm)

SPECIFICATIONS

Operating Temp. -40°C ~ +120°C
Betriebstemp.

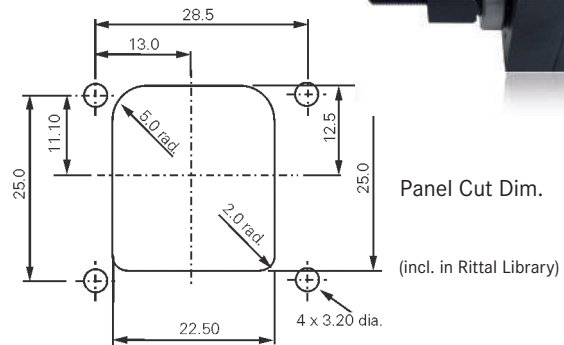
ACCESSORIES PART NO.: Y-ConFlange-Punch-I

DESCRIPTION

Manual punch to stamp out the Y-ConFlange-** panel cut with matrix for 4 screw holes.
For V2A plate metal up to 2.0mm (Rockwell 56-58)

Manueller Blechlocher für das Ausstanzen des Ausschnittes für Y-ConFlange-** mit Raster für 4 Schraubenbohrungen. Für V2A Metallblech bis 2,0 mm (Rockwell 56-58)

MATERIAL Steel (black)



ACCESSORIES PART NO.:Y-ConAS-25

DESCRIPTION

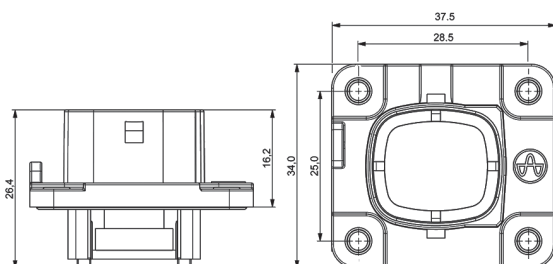
Flange-head screws M3 Thread
Schrauben (M3-Gewinde)

MATERIAL Steel

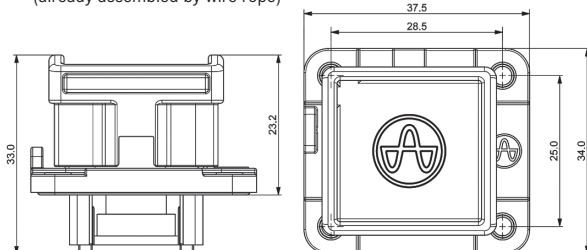


Y-ConFlange OUTLINE DIMENSIONS

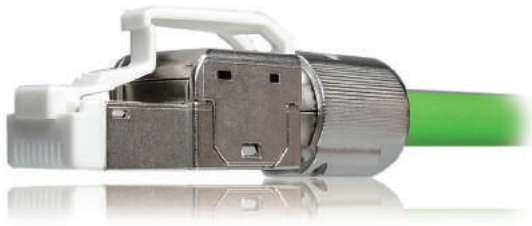
Y-ConFlange-40



Protection cap
(already assembled by wire rope)



Part Number	Protection Cap
Y-ConFlange-40	No
Y-ConFlange-40-C	Yes



PART NUMBER

Y-ConProfixPlug - 6*

Series

6* = Cat6_A for variations see table below

SERIES Y-ConProfixPlug

DESCRIPTION

RJ45 cable plug, Cat5 and Cat6_A according to ISO/IEC 1180 standard for professional fixation with integrated cable guide, tool free field-assembly, variable cable diameters, with power contacts

RJ45 Kabelstecker Cat6_A gemäß ISO/IEC 11801 zur professionellen Montage mit integrierter Kabelführung, werkzeuglos feldassemblierbar, flexibler Kabeldurchmesser, mit Powerkontakten

MATERIAL

Plug body PC, PA (UL94V-0)
Steckergehäuse

Shielding Nickel plated brass
Schirmung

Contact Contact area 30μ" Au over Ni
Kontakte

SPECIFICATIONS

Operating Temp. -40°C ~ +120°C
Betriebstemp.

Durability 1,500 mechanical cycles
Lebensdauer

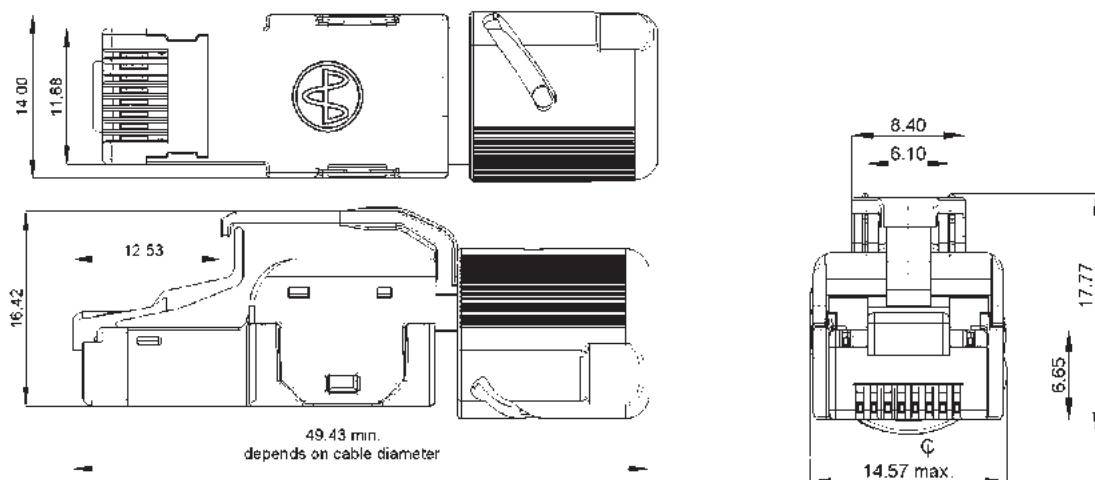
Current Rating 3.1A @ 70°C (power contacts)
Bemessungsstrom

CABLE SPECIFICATIONS

AWG 22 - 26 Solid wire
AWG 24 - 26 Stranded wire

Cable Diameter 6.8mm ~ 9.25mm
Kabeldurchmesser

Y-ConProfixPlug OUTLINE DIMENSIONS



Part Number	Signal Contacts	Power Contacts	Category
Y-ConProfixPlug-51	8	2	Cat5
Y-ConProfixPlug-53	8	0	Cat5
Y-ConProfixPlug-61	8	2	Cat6 _A
Y-ConProfixPlug-63	8	0	Cat6 _A



PART NUMBER

Y-ConPlug - *1

Series

Design Number

SERIES Y-ConPlug

DESCRIPTION

RJ45 cable plug, Cat 5 with integrated cable guide, shielding and cable crimp preventing cable rotation. Ethernet/customised contact wiring, with or without power contacts

RJ45 Kabelstecker Cat 5 mit integrierter Kabelführung, Schirmung und Kabelcrimp, der das Verdrehen des Kabels verhindert. Ethernet/Kundenspezifische Kontaktverdrahtung mit oder ohne zusätzlichen Kontakten für die Stromversorgung

MATERIAL

Plug body
Steckergehäuse PBT, UL94V-0

Shielding
Schirmung Nickel plated brass

Contact
Kontakte Contact area 30µmAu over Ni

SPECIFICATIONS

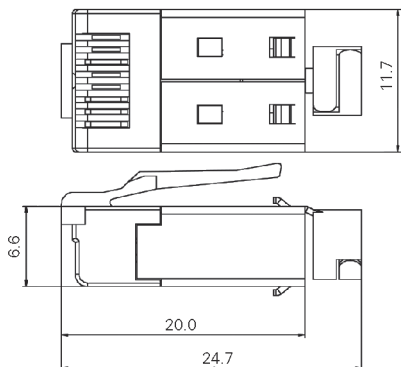
Operating Temp. -40°C ~ +120°C
Betriebstemp.

Durability 1,500 mechanical cycles
Lebensdauer

Current Rating 2.1A @ 70°C (power contacts)
Bemessungsstrom

Y-ConPlug OUTLINE DIMENSIONS

Example:
Y-ConPlug-51



ACCESSORIES PART NO.: Y-ConAS-11

DESCRIPTION

IP20 strain relief for use with all Y-Con plugs. The cable cage allows for flexing with the cable

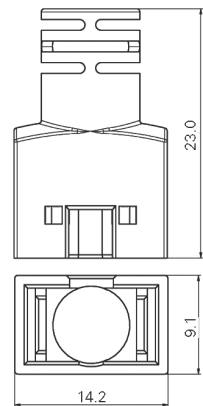
IP20-Zugentlastung für den Einsatz mit allen Y-Con Kabelsteckern. Die Manschette der Zugentlastung unterstützt die Biegeflexibilität des Kabels



MATERIAL PA66

SPECIFICATIONS

Operating Temp. -20°C ~ +120°C
Betriebstemp.



ACCESSORIES PART NO.: Y-ConAS-12

DESCRIPTION

IP20 protective transport cap for all Y-Con plugs

IP20 Transportschutzabdeckung für alle Y-Con Kabelstecker

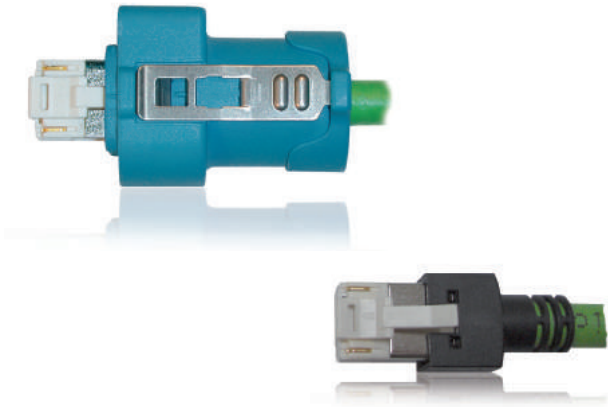
MATERIAL PE
Colour
Farbe Transparent white



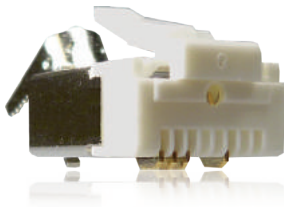
SPECIFICATIONS

Operating Temp. -20°C ~ +80°C
Betriebstemp.

Part Number	Signal Contacts	Power Contacts	Max. Outer Wire Ø in mm	Recommended Cable
Y-ConPlug-11	4 (Ethernet)	0	1.05	Y-ConCable-2
Y-ConPlug-21	4 (Ethernet)	2	1.05	Y-ConCable-1
Y-ConPlug-31	6	2	1.05	on request
Y-ConPlug-41	8	0	1.05	Y-ConCable-4
Y-ConPlug-51	8	2	1.05	Y-ConCable-10



Y-CON PLUG FOR PROFINET



PART NUMBER Y-ConPlug-15

DESCRIPTION

RJ45 Cat 5 plug for use in Profinet applications, with cable guide, shielding and cable crimp. 4 data contacts. Suitable for AWG22 cable with a lead $\leq \varnothing 1.40\text{mm}$

RJ45 Cat 5 Kabelstecker für Profinet-Anwendungen mit Kabelführung, Schirmung und Kabelcrimp. 4 Datenkontakte. Passend zu AWG22-Kabel mit Einzelader $\leq \varnothing 1,40\text{mm}$

MATERIAL

Plug Steckergehäuse	PBT, UL94V-0
Shield Schirm	Nickel plated brass
Contact Area Kontakt	30µ" Au over Ni

SPECIFICATIONS

Operating Temp. $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$
Betriebstemp.

Durability Lebensdauer	1,500 mechanical cycles
---------------------------	-------------------------

Building on the success of ProfiBus, the ProfiNet transmission standard is set to become one of the most important for industrial automation applications.

The Y-Con ProfiNet connector employs piercing contacts, and the plug mating face conforms to the RJ45 standard. It can thereby be used with standard RJ45 jacks and is backwards compatible.

Aufbauend auf dem Erfolg von ProfiBus ist der ProfiNet Übertragungsstandard dabei, einer der wichtigsten Verkabelungsstandards für Anwendungen der industriellen Automation zu werden.

Der Y-Con ProfiNet Stecker verwendet Piercing-Kontakte.

Das Steckgesicht ist identisch mit dem RJ45-Steckertyp. Somit ist er auch mit Standard RJ45-Buchsen anwendbar und abwärts kompatibel.

PROFINET CABLE



PART NUMBER Y-ConCable-7

DESCRIPTION

100 Mbit, Cat 5e ES, digital signal cable for use with Y-ConPlug-15 in Profinet applications, with 4 data lines,

100 Mbps, Cat 5e ES, Kabel für digitale Signale, für den Einsatz mit Y-Con-Plug15 bei Profinet-Anwendung mit 4 Datenleitungen,

MATERIAL

Jacket Mantel	PUR
Bending Radius Biegeradius	49mm multiple turns 21mm single turn
Operating Temp. Betriebstemp.	$-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Colour Farbe	Green

CABLE SPECIFICATIONS

Outer Wire Diameter: max. 1.39mm
Litzendurchmesser

For Y-ConCable-7 specifications (see page 24)
Für Y-ConCable-7 specifications (siehe Seite 24)



PART NUMBER

Y-ConCover - 20

Series

Design Number

SERIES Y-ConCover

DESCRIPTION

IP20 EMI metal cover against EMI interference,
with integrated latch protection.
For use with all Y-Con plugs

IP20 EMV Metall Steckergehäuse gegen elektromagnetische
Beeinflussung, mit integriertem Verriegelungsschutz.
Für den Einsatz mit allen Y-Con Kabelsteckern

MATERIAL

Cover Die-cast zinc
Gehäuse

Screw Steel
Schraube

SPECIFICATIONS

Operating Temp. $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Betriebstemp.

ACCESSORIES PART NO.: Y-ConAS-12

DESCRIPTION

IP20 protective transport cap for all Y-Con plugs.

IP20 Transportschutzabdeckung für
alle Y-Con Kabelstecker.

MATERIAL

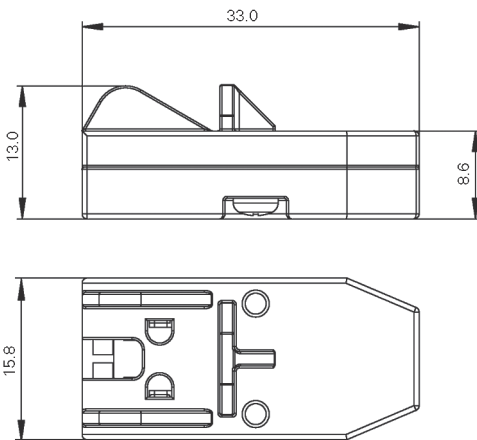
Colour PE
Farbe Transparent white

SPECIFICATIONS

Operating Temp. $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Betriebstemp.



Y-ConCover OUTLINE DIMENSIONS



Y-ConIP20Lock-10



Y-ConIP20Lock-20



PART NUMBER

Y-ConIP20Lock - **

Series

10 = Standard Type
20 = With Locking Slider

SERIES Y-ConIP20Lock

DESCRIPTION

IP20 lock 180° strain relief with vibration resistant locking clips. Also available with additional locking slider for increased mechanical retention. For use with all Y-Con plugs

IP20-Zugentlastung mit vibrationsstabilen Rasthaken.

Auch mit zusätzlichem Schiebeverschluss für verbesserte mechanische Rückhaltekraft verfügbar. Für den Einsatz mit allen Y-Con Kabelsteckern

MATERIAL

Colour:
Farbe

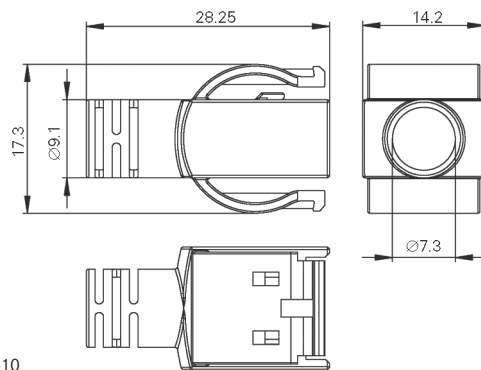
PA66

Y-ConIP20Lock-10 (Black)
Y-ConIP20Lock-20 (Black & White)

SPECIFICATIONS

Operating Temp. -20°C ~ +120°C
Betriebstemp.

Y-ConIP20Lock OUTLINE DIMENSIONS



Y-ConIP20Lock-10

Y-ConIP20Lock-20

Part Number	Type
Y-ConIP20Lock-10	Standard
Y-ConIP20Lock-20	With additional locking slider

SERIES Y-ConIP20HFR



PART NUMBER

Y-ConIP20HFR - *

Series

Number of Holding Frames

DESCRIPTION

IP20 holding frames 1x, 2x or 4x format.
For use with all RJ45 and USB IP20Lock products

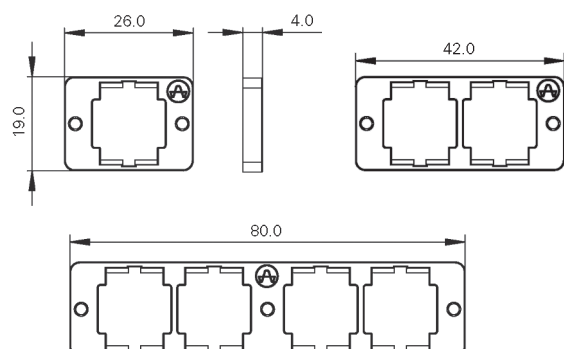
IP20 Halterahmen in 1x, 2x oder 4x Ausführung zur Verwendung mit allen RJ45 und USB IP20Lock Produkten

SPECIFICATIONS

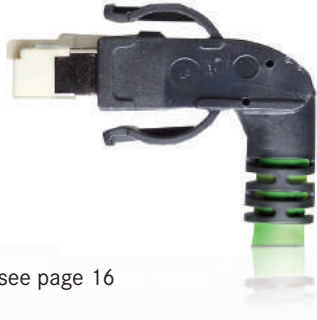
Operating Temp. -20°C ~ +120°C
Betriebstemp.

MATERIAL PA66 (Black)

OUTLINE DIMENSIONS



Part Number	No. of Holding Frames
Y-ConIP20HFR-10	1
Y-ConIP20HFR-20	2
Y-ConIP20HFR-40	4



For holding frames: see page 16

PART NUMBER (EXAMPLE)

CYC RJ2042X - CRJ2042 - * *

Series	↑
Side 1 (protection)	↑
Side 2 (protection)	↑
Cable Length in cm	↑
Wiring	↑

For defined part number details: see page 22

SERIES CYC with Y-ConIP20Lock 90° (CYCRJ20*)

DESCRIPTION

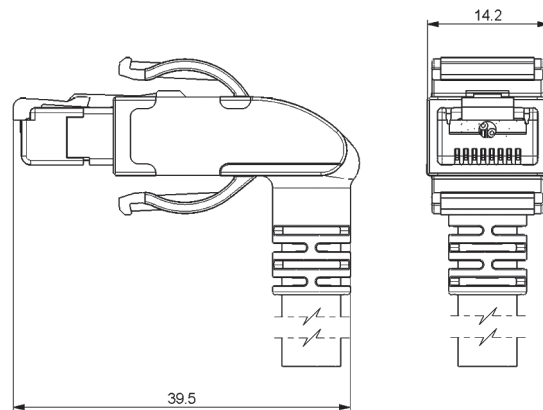
IP20 lock 90° overmolded cable assembly, with option for an additional colour coded locking slider for increased mechanical retention. Available with various Y-Con plug and cable combinations

IP20Lock 90° umspritzte Kabelkonfektion mit optionalem, zusätzlichem Schiebeverschluss (farbcodiert) für verbesserte mechanische Rückhaltekraft. Erhältlich in verschiedenen Y-Con Stecker- und Kabelkombinationen

MATERIAL PA66

SPECIFICATIONS

Operating Temp. -20°C ~ +120°C
Betriebstemp.



SERIES Y-ConIP20Lock-Clip



PART NUMBER

Y-ConIP20Lock-Clip - *

Series	↑
Available Colours	↑

DESCRIPTION

Colour coded locking slider for Y-ConIP20Lock 90° (CYCRJ20*)

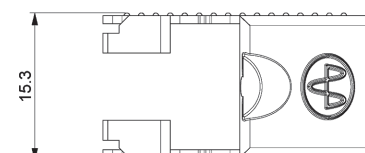
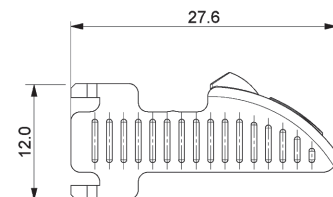
Farbcodierter Schiebeverschluss für Y-ConIP20Lock 90° (CYCRJ20*)

MATERIAL PA66

SPECIFICATIONS

Operating Temp. -20°C ~ +120°C
Betriebstemp.

OUTLINE DIMENSIONS



Part Number	Available Colours
Y-ConIP20Lock-Clip-1	Red (R-030)
Y-ConIP20Lock-Clip-2	Orange (OR-005)
Y-ConIP20Lock-Clip-3	Yellow (GE-013)
Y-ConIP20Lock-Clip-4	Green (GR-041)
Y-ConIP20Lock-Clip-5	Blue (BL-012)
Y-ConIP20Lock-Clip-6	Grey (G-038)
Y-ConIP20Lock-Clip-7	White (W-040)

SERIES Y-ConKIT - IP67 / 68 / 69K FIELD KITS

Y-ConCover-10
Y-ConCover-10-B (black)



Y-ConAS-22



Y-Con Stopper



DESCRIPTION

IP67/68/69K RJ45
Field kit for self-assembly

IP67/68/69K RJ45 Konfektionierungs-
Kit zur Selbstmontage

PART NUMBER

Y-ConKIT - 2*

Series

See table below

Y-ConAS-23
Y-ConAS-23-B (black)



Y-ConPlug-**



Insert



Part Number	Cover	Terminator Cap	Plug	Signal Contacts	Power Contacts
Y-ConKit-20	Y-ConCover-10	Y-ConAS-23	Y-ConPlug-1 1	4 (Ethernet)	0
Y-ConKit-20-B	Y-ConCover-10-B	Y-ConAS-23-B	Y-ConPlug-1 1	4 (Ethernet)	0
Y-ConKit-21	Y-ConCover-10	Y-ConAS-23	Y-ConPlug-2 1	4 (Ethernet)	2
Y-ConKit-21-B	Y-ConCover-10-B	Y-ConAS-23-B	Y-ConPlug-2 1	4 (Ethernet)	2
Y-ConKit-21-B-LT	Y-ConCover-10-B-LT	Y-ConAS-23-B	Y-ConPlug-2 1	4 (Ethernet)	2
Y-ConKit-23	Y-ConCover-10	Y-ConAS-23	Y-ConPlug-3 1	6	2
Y-ConKit-24	Y-ConCover-10	Y-ConAS-23	Y-ConPlug-4 1	8	0
Y-ConKit-24-B	Y-ConCover-10-B	Y-ConAS-23-B	Y-ConPlug-4 1	8	0
Y-ConKit-24-B-LT	Y-ConCover-10-B-LT	Y-ConAS-23-B	Y-ConPlug-4 1	8	0
Y-ConKit-26	Y-ConCover-10	Y-ConAS-23	Y-ConPlug-5 1	8	2

SERIES Y-ConKIT - IP67 / 68 / 69K FIELD KITS (EMI)

Y-ConCover-10-E
Y-ConCover-10-B-E (black)



Y-ConAS-22



Y-Con Stopper



DESCRIPTION

IP67/68/69K EMI RJ45
Field kit for self-assembly

IP67/68/69K RJ45 Konfektionierungs-
Kit zur Selbstmontage

PART NUMBER

Y-ConKIT - 2*

Series

See table below

Y-ConAS-23
Y-ConAS-23-B (black)



Y-ConPlug-**



Insert



Part Number	Cover	Terminator Cap	Plug	Signal Contacts	Power Contacts
Y-ConKit-21-E	Y-ConCover-10-E	Y-ConAS-23	Y-ConPlug-2 1	4 (Ethernet)	2
Y-ConKit-21-B-E	Y-ConCover-10-B-E	Y-ConAS-23-B	Y-ConPlug-2 1	4 (Ethernet)	2

SERIES Y-ConKIT - IP67 / 68 / 69K FLANGE FIELD KITS

Y-ConFlange-10
Y-ConFlange-10-B (black)



Y-ConAS-24



DESCRIPTION

IP67/68/69K RJ45
Flange field kit for self-assembly

IP67/68/69K RJ45 Flansch
Konfektionierungs-
Kit zur Selbstmontage

PART NUMBER

Y-ConKIT - 3*

Series

See table below

Part Number	Flange	Protection Cap
Y-ConKit-30	Y-ConFlange-10	Y-ConAS-24
Y-ConKit-30-B	Y-ConFlange-10-B	Y-ConAS-24

SERIES Y-ConKIT - IP67 / 68 / 69K METAL FIELD KITS

Y-ConCover-40



Y-ConPlug-**



Insert



DESCRIPTION

IP67/68/69K RJ45

Field kit for self-assembly
(metal)

IP67/68/69K RJ45 Konfektionierungs-
Kit zur Selbstmontage (Metallversion)

PART NUMBER

Y-ConKIT - 4*

Series

See table below

Part Number	Cover	Plug	Signal Contacts	Power Contacts
Y-ConKit-40	Y-ConCover-40	Y-ConPlug-11	4 (Ethernet)	0
Y-ConKit-41	Y-ConCover-40	Y-ConPlug-21	4 (Ethernet)	2

SERIES Y-ConKIT - IP67 / 68 / 69K METAL FIELD KITS (EMI)

Y-ConCover-40-E



Y-ConPlug-**



Insert



DESCRIPTION

IP67/68/69K EMI RJ45

Field kit for self-assembly
(metal)

IP67/68/69K RJ45 Konfektionierungs-
Kit zur Selbstmontage (Metallversion)

PART NUMBER

Y-ConKIT - 4*

Series

See table below

Part Number	Cover	Plug	Signal Contacts	Power Contacts
Y-ConKit-40-E	Y-ConCover-40-E	Y-ConPlug-11	4 (Ethernet)	0
Y-ConKit-41-E	Y-ConCover-40-E	Y-ConPlug-21	4 (Ethernet)	2

SERIES Y-ConKIT - IP20 FIELD KITS

Y-ConAS-11



Y-ConPlug-**



Insert



DESCRIPTION

IP20 RJ45

Field kit for self-assembly

IP20 RJ45 Konfektionierungs-
Kit zur Selbstmontage

PART NUMBER

Y-ConKIT - 1*

Series

See table below

Part Number	Strain Relief	Plug	Signal Contacts	Power Contacts
Y-ConKit-10	Y-ConAS-11	Y-ConPlug-11	4 (Ethernet)	0
Y-ConKit-11	Y-ConAS-11	Y-ConPlug-21	4 (Ethernet)	2
Y-ConKit-12	Y-ConAS-11	Y-ConPlug-51	8	2
Y-ConKit-13	Y-ConAS-11	Y-ConPlug-31	6	2
Y-ConKit-14	Y-ConAS-11	Y-ConPlug-41	8	0

SERIES Y-ConKIT - IP20 METAL FIELD KITS (EMI)

Y-ConAS-12



Y-ConCover20



Y-ConPlug-**



Insert



DESCRIPTION

IP20 EMI RJ45

Field kit for self-assembly
(metal)

IP20 EMI RJ45 Konfektionierungs-
Kit zur Selbstmontage (Metallversion)

PART NUMBER

Y-ConKIT - 1*

Series

See table below

Part Number	Protection Cap	Cover Type	Plug Type	Signal Contacts	Power Contacts
Y-ConKit-15	Y-ConAS-12	Y-ConCover-20	Y-ConPlug-21	4 (Ethernet)	2
Y-ConKit-16	Y-ConAS-12	Y-ConCover-20	Y-ConPlug-51	8	2
Y-ConKit-17	Y-ConAS-12	Y-ConCover-20	Y-ConPlug-11	4 (Ethernet)	0

PART NUMBER Y-ConTool-13

DESCRIPTION

Quick and easy 1-step crimp tool for all Y-Con RJ45 plugs, crimps all contacts and fixes the square crimp in one action

Schnelle und einfache einstufige Crimpzange für alle Y-Con RJ45 Stecker, Crimpt alle Kontakte und die quadratische Zugentlastung in einem Arbeitsgang

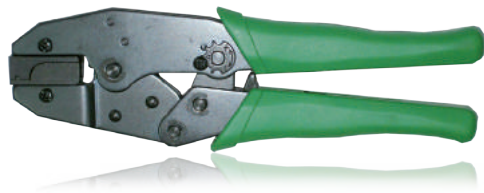


PART NUMBER RJ45ToolCO-6LO5

DESCRIPTION

Crimp tool for standard RJ45 plugs Cat5

Crimpzange für RJ45 Standard Stecker Cat5

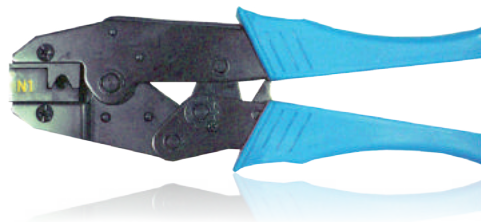


PART NUMBER RJ45ToolCO-6HO6

DESCRIPTION

Crimp tool for standard RJ45 plugs Cat6 / Cat6_A

Crimpzange für RJ45 Standard Stecker Cat6 / Cat6_A



PART NUMBER Y-ConTool-20

DESCRIPTION

Cable stripping tool with adjustable blades for 4, 6, 8 and 12mm cable diameter

Abisolierwerkzeug für die Kabelummantelung mit verstellbaren Klingen für 4, 6, 8 und 12mm Kabeldurchmesser



PART NUMBER Y-ConTool-30

DESCRIPTION

Cable-to-Plug assembly tool

Hilfswerkzeug für die Steckermontage





SERIES CYC with Y-ConRJ45 overmolded metal cover (CYCRJ60*)

DESCRIPTION

Overmolded IP67/68/69K metal cover version (CYCRJ60*) for Y-Con plugs and cables, with or without EMI protection, with latches, Twist-Lock open and closing mechanism. Only available as cable assembly. For further details please contact Yamaichi Electronics

Umspritzte Kabelkonfektion IP67/68/69K mit Metalgehäuse (CYCRJ60*) für Y-Con Kabelstecker und Kabel. Mit und ohne zusätzlichem EMV-Schutz, mit Twist-Lock Verschlussmechanismus und Rasthaken.
Nur als Kabelkonfektion erhältlich.
Für weitere Details kontaktieren Sie bitte Yamaichi Electronics

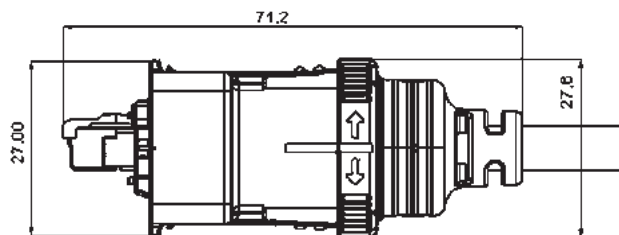
MATERIAL

Body Gehäuse	Die-cast zinc
Seal Dichtung	FKM (Viton®) or HNBR
Fixing clips Rasthaken	Stainless steel
EMI Spring (optional) EMV Feder	Phosphor Bronze
EMI Washer (optional) EMV Scheibe	Phosphor Bronze

SPECIFICATIONS

Operating Temp. Betriebstemp.	Std. - 20°C ~ +120°C LT - 40°C ~ +120°C
----------------------------------	--

OUTLINE DIMENSIONS



PART NUMBER Defined part number details: see page22

CYC RJ6042E - CRJ6042 - 100 XAX

Series	↑
Side 1	↑
Side 2	↑
Cable Length (in cm)	↑
Wiring	↑
Reserved for future features	↑

ACCESSORIES PART NO.: Y-ConAS-21

DESCRIPTION

IP67 protective transport cap for Y-ConCover-10-* / Y-ConCover-40-*



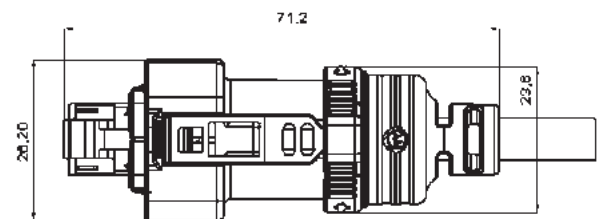
IP67-Transportschutzabdeckung für Y-ConCover-10-* / Y-ConCover-40-*

MATERIAL

Body Gehäuse	PE
Colour Farbe	Transparent white

SPECIFICATIONS

Operating Temp. Betriebstemp.	-20°C ~ +80°C
----------------------------------	---------------



PART NUMBER DEFINITION

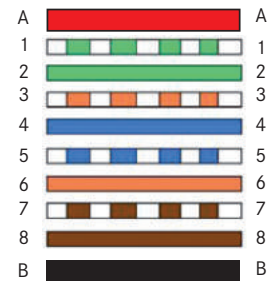
	Interface 1						Interface 2						Cable			
Example	CY	C	RJ	6M	42	€	-	C	RJ	2S	42	-	100	X	A	X
Connector Group C = Y-Con																
Interface RJ = Y-ConRJ45																
Connector Type 6P = IP67 plastic cover 6M = IP67 metal cover 6O = IP67 overmolded 2S = IP20 strain relief 2L = IP20Lock strain relief 2O = IP20Lock 90° overmolded 2M = IP20 metal cover																
Number of Contacts 40 = 4+0 42 = 4+2 60 = 6+0 62 = 6+2 80 = 8+0 82 = 8+2																
Options L = Low temperature E = EMI Z = EMI and Low temperature X = no options																
Connector Group C = Y-ConRJ45 F = Free End																
For Y-ConRJ45 connection RJ = RJ45 For Free End EC = Free end (cut only) ET = Free end (Tin coated)																
Connector Type 6P = IP67 plastic cover 6M = IP67 metal cover 6O = IP67 overmolded 2S = IP20 strain relief 2L = IP20Lock strain relief 2O = IP20Lock 90° overmolded 2M = IP20 metal cover																
Number of Contacts 40 = 4+0 42 = 4+2 60 = 6+0 62 = 6+2 80 = 8+0 82 = 8+2																
Cable Length 100 = Length in cm																
Cable Type x = not used																
Wiring Plan A = T568A 1:1, B = T568A crossover, C = T568B 1:1, D = T568B crossover, F = Custom																
Reserved for future features																

POSSIBLE COVER VARIATIONS

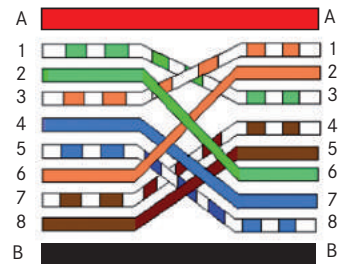


POSSIBLE WIRING DIAGRAMS

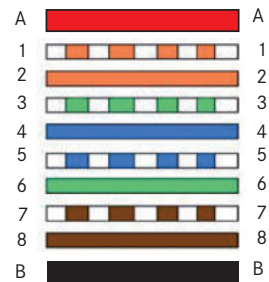
T568A 1 : 1



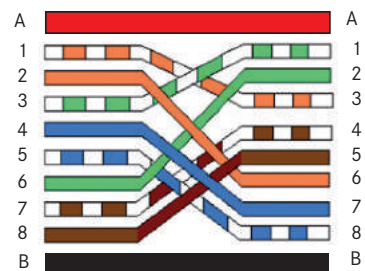
T568A Crossover



T568B 1 : 1



T568B Crossover



Note: Y-ConPlug-11, -12 and -31 use only
signal contacts 1, 2, 3 & 6.
A and B are optional power contacts

Y-CON AND Y-CIRC M12 SERIES

Industrial Ethernet connects sensors, actuators and encoders by Y-Con RJ45 - Y-Circ M12 converter cables.

Y-Circ M12 features:

- Male and female versions 90° and 180°, PUR overmolded
- 360° shielding for advanced EMI protection
- Metal screw with vibration resistant locking

Industrial Ethernet verbindet Sensoren, Aktoren und Encoder über Y-Con RJ45 - Y-Circ M12 Verbindungskabel.

Y-Circ M12 Merkmale:

- Stecker und Buchsen in 90° und 180° Versionen, PUR Umspritzung
- 360° Schirmanbindung für optimalen EMV Schutz
- Metallischer Drehverschluss mit vibrations sicherem Mechanismus



TABLE OF AVAILABLE VERSIONS FOR Y-CIRC M12 PRODUCTS

The following table shows all available versions and options of Y-Circ M connectors that can be combined with Y-Con. The options can be configured by the customer to create a tailored product according to customers needs.

Die folgende Tabelle zeigt alle verfügbaren Versionen und Optionen der Anschlüsse in Kombination mit Y-Con-Produkte.

Die Optionen können vom Kunden konfiguriert werden, um maßgeschneiderte Produkte gemäß den Kundenanforderungen zu schaffen.

Coding	Versions					Options	
	Pin Count <i>Polzahl</i>	Male <i>Stecker</i>	Female <i>Buchse</i>	90°	180°	360° Shielding <i>360° Schirmung</i>	Vibration Proof Locking <i>Vibrationssicherer Verschluss</i>
A 	5	X	X	X	X	○	○
	8	X	X	X	X	○	○
B 	5	X	X	X	X	○	○
D 	4	X	X	X	X	○	○
X 	8	X		X	X	●	●

X Available version
Verfügbare Version

○ Options available
Optional verfügbar

● Mandatory feature
vorgeschriebene Funktion

PART NUMBER DEFINITION

Example	Interface 1					-	Interface 2				-	Cable			
	CY	M	12	FA	8X		F	C	RJ	25		80	100	F	G
Connector Group M = Y-Circ M															
Size 12 = M12 connector															
Connector Type MS = Straight cable plug FS = Straight cable socket MA = Angled cable plug FA = Angled cable socket															
Coding Coding A 2A = 2 contacts 3A = 3 contacts 4A = 4 contacts 5A = 5 contacts 6A = 6 contacts 7A = 7 contacts 8A = 8 contacts Coding B 5B = 5 contacts Coding D 4D = 4 contacts Coding x 8X = 8 contacts															
Options F = Vibration + shielding V = Vibration S = Shielding B = Basic version															
Connector Group C = Y-ConRJ45															
RJ = RJ45															
Connector Type 6P = IP67 plastic cover 6M = IP67 metal cover 6O = IP67 overmolded 2S = IP20 strain relief 2L = IP20Lock strain relief 2O = IP20Lock 90° overmolded 2M = IP20 metal cover															
Number of Contacts 40 = 4+0 42 = 4+2 60 = 6+0 62 = 6+2 80 = 8+0 82 = 8+2															
Cable Length 100 = Length in cm															
Cable Type *Various cable types available															
Wiring Plan Various wiring plans available															
Reserved for future features															

*For more details please contact Yamaichi Electronics or download the Y-Circ M catalogue from our homepage

DESCRIPTION:

Cat 5, digital signal cable,
silicon free

Cat 5 (Cat 5e), Kabel für digitale Signale,
Silikon-frei

PART NUMBER

Y-ConCable - *

Series

See table below



PART NUMBER Y-ConCable-1

Suitable for Y-ConPlug-21

Signal	Power	Jacket	Temp.	Cable OD	Cable Chain	Bending Radius	Bending Cycles
2 x 2	2	PVC	-20°C ~ +80°C	6.9mm	No	125mm multiple turns	max. 100,000
AWG 24/7 0.22mm ²	AWG 22/19 0.38mm ²	Green		(+0.1)		35mm single turn	



PART NUMBER Y-ConCable-2

Suitable for Y-ConPlug-11

Signal	Power	Jacket	Temp.	Cable OD	Cable Chain	Bending Radius	Bending Cycles
2 x 2	0	PVC	-20°C ~ +80°C	6.85mm	No	min. 50mm single turn	-
AWG 24/7 0.22mm ²		Grey		(+/-0.15)			



PART NUMBER Y-ConCable-3

Suitable for Y-ConPlug-21 and Y-ConProFixPlug-51 (Cat5)

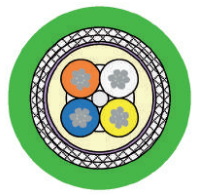
Signal	Power	Jacket	Temp.	Cable OD	Cable Chain	Bending Radius	Bending Cycles
2 x 2	2	PUR	-20°C ~ +80°C	6.8mm	Yes	70mm multiple turns	max. 1 million
AWG 26/7 0.14mm ²	AWG 22/7 0.34mm ²	Green		(+0.2)		35mm single turn	



PART NUMBER Y-ConCable-4

Suitable for Y-ConPlug-41 and Y-ConProFixPlug-53 (Cat5)

Signal	Power	Jacket	Temp.	Cable OD	Cable Chain	Bending Radius	Bending Cycles
4 x 2	0	PUR	-20°C ~ +70°C	6.8mm	Yes	68mm	max. 1 million
AWG 26/7 0.14mm ²		Green		(+0.1/-0.3mm)			



PART NUMBER Y-ConCable-7 (PROFINET)

Suitable for Y-ConPlug-15

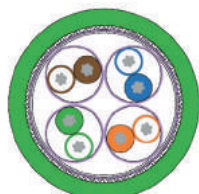
Signal	Power	Jacket	Temp.	Cable OD	Cable Chain	Bending Radius	Bending Cycles
4	0	PUR	-20°C ~ +80°C	6.8mm	Yes	102mm multiple turns	max. 2.5 million
AWG 22/7 0.34mm ²		Green		(+0.2)			



PART NUMBER Y-ConCable-10

Suitable for Y-ConPlug-51 and Y-ConProFixPlug-51 (Cat5)

Signal	Power	Jacket	Temp.	Cable OD	Cable Chain	Bending Radius	Bending Cycles
4 x 2	2	PUR	-20°C ~ +70°C	6.9mm	Yes	70mm multiple turns	max. 1 million
AWG 26/7 0.14mm ²	AWG 23/19 0.25mm ²	Green		(+0.1)			



PART NUMBER Y-ConCable-CAT6-1

Suitable for Y-ConProFixPlug-63 (Cat6_A)

Signal	Power	Jacket	Temp.	Cable OD	Cable Chain	Bending Radius	Bending Cycles
4 x 2	0	PVC	-40°C ~ +80°C	8.6mm	-	68mm multiple turns	-
AWG 23		Green		(+/-0.2)			

Conductor Resistance	Insulation Resistance	Dielectric Strength	Capacitance	Characteristic Impedance	Near-end Crosstalk	Flame Resistance	Halogen Free
Data $\leq 90\Omega \times \text{km}$	$\geq 1\text{G}\Omega \times \text{km}$	500V / 50Hz	50nF / km	100 +/- 15 Ω	100Mhz	IEC 332-1	No
Power $\leq 55\Omega \times \text{km}$		for 1 min	at 800Hz	at 1Mhz to 100Mhz	> 32dB / 100m		

Conductor Resistance	Insulation Resistance	Dielectric Strength	Capacitance	Characteristic Impedance	Near-end Crosstalk	Flame Resistance	Halogen Free
Data $\leq 90\Omega \times \text{km}$	$\geq 1\text{G}\Omega \times \text{km}$	500V / 50Hz	50nF / km	100 +/- 15 Ω	100Mhz	IEC 332-1	No
		for 1 min	at 800Hz	at 1Mhz to 100Mhz	> 32dB / 100m		

Conductor Resistance	Insulation Resistance	Dielectric Strength	Capacitance	Characteristic Impedance	Near-end Crosstalk	Flame Resistance	Halogen Free
Data $\leq 140\Omega \times \text{km}$	$\geq 1\text{G}\Omega \times \text{km}$	500V / 50Hz	50nF / km	100 +/- 15 Ω	100Mhz	IEC 332-1	Yes
Power $\leq 62\Omega \times \text{km}$		for 1 min	at 800Hz	at 1Mhz to 100Mhz	> 32dB / 100m		

Conductor Resistance	Insulation Resistance	Dielectric Strength	Capacitance	Characteristic Impedance	Near-end Crosstalk	Flame Resistance	Halogen Free
Data $\leq 140\Omega \times \text{km}$	$\geq 140\text{M}\Omega \times \text{km}$	700V / 50Hz	48nF / km	100 +/- 15 Ω	100Mhz	UL- Style 20963	Yes
		for 1 min	at 1,000Hz	at 1Mhz to 100Mhz	> 32dB / 100m		

Conductor Resistance	Insulation Resistance	Dielectric Strength	Capacitance	Characteristic Impedance	Near-end Crosstalk	Flame Resistance	Halogen Free
Data $\leq 60\Omega \times \text{km}$	$\geq 500\text{M}\Omega \times \text{km}$	2,000V / 50Hz	53nF / km	100 +/- 15 Ω	100Mhz	UL- Style 20963	Yes
		for 1 min	at 800Hz	at 1Mhz to 100Mhz	> 50dB / 100m		

Conductor Resistance	Insulation Resistance	Dielectric Strength	Capacitance	Characteristic Impedance	Near-end Crosstalk	Flame resistance	Halogen Free
Data $\leq 140\Omega \times \text{km}$	$\geq 150\text{M}\Omega \times \text{km}$	1,000V / 50Hz	48nF / km	100 +/- 15 Ω	100Mhz	UL- Style 20963	Yes
Power $\leq 75\Omega \times \text{km}$		for 1 min	at 1,000Hz	at 1Mhz to 100Mhz	> 35dB / 100m		

Conductor Resistance	Insulation Resistance	Dielectric Strength	Capacitance	Characteristic Impedance	Near-end Crosstalk	Flame Resistance	Halogen Free
Data $\leq 150\Omega \times \text{km}$	$\geq 500\text{M}\Omega \times \text{km}$	1,000V / 50Hz	-	100 +/- 5 Ω	45.3dB	UL- Style 246 1	No
		for 1 min		at 100Mhz			



PART NUMBER

Y-ConJack - * * - *

Series	
Power Contacts	1 = without 2 = with
	1 = 90° 2 = 180°
See remarks in table below	

SERIES Y-ConJack

DESCRIPTION

RJ45 jack 90° and 180°, Cat 5, with improved shielding.
Available with additional power contacts.
For use with all Y-Con plugs

RJ45 Buchse 90° und 180°, Cat 5, mit verbesserter Schirmung.
Auch mit zusätzlichen Kontakten für die Stromversorgung
verfügbar. Für den Einsatz mit allen Y-Con Kabelsteckern

MATERIAL

Jack body Isolierkörper	PA, UL94V-0
Shielding Schirmung	Nickel plated brass
Contact Kontakte	Contact area 30μ" Au/50μ" Ni Solder area 80μ" Sn/50μ" Ni

SPECIFICATIONS

Operating Temp.: -40°C ~ +120°C
Betriebstemp.

Solder Temp. Reflow max. 260°C / 10sec.
Löttemp. Wave min. 235°C / 3 sec.
(only for Y-ConJack-21-PP
and Y-ConJack-22- WAVE)

Durability 1,500 mechanical cycles
Lebensdauer

Current Rating: 2.1A @ 70°C (power contacts)
Bemessungsstrom

ACCESSORIES PART NO.: Y-ConAS-13

DESCRIPTION

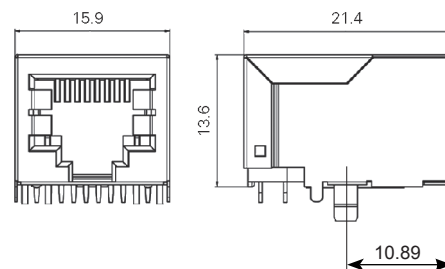
IP20 dummy plug for all RJ45 jacks

IP20 Dummy-Stecker
für alle RJ45 Buchsen

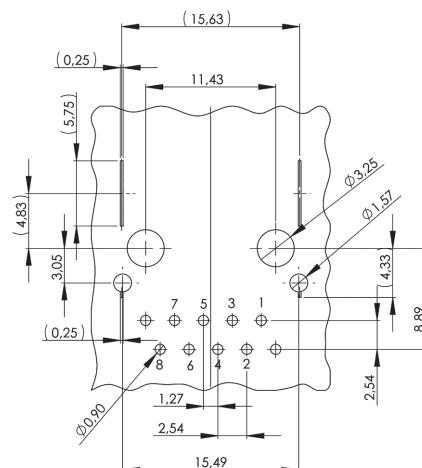


Y-ConJack OUTLINE DIMENSIONS

Y-ConJack-11



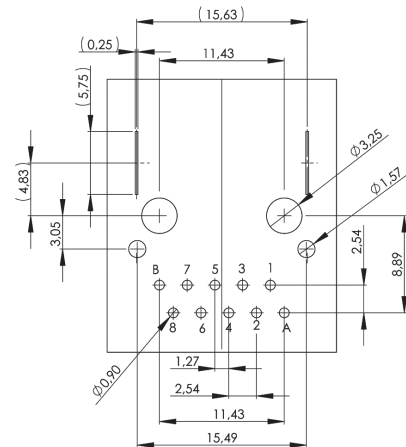
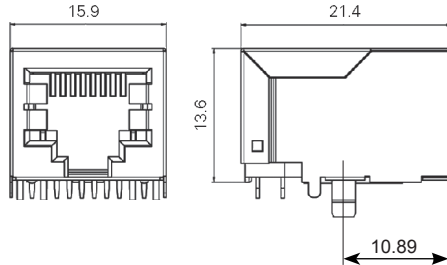
PCB LAYOUT



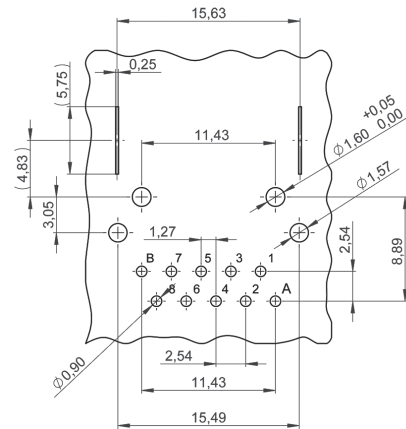
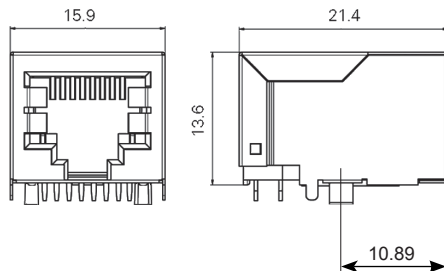
Part Number	Signal Contacts	Power Contacts	Orientation	Remarks
Y-ConJack-11	8	0	90°	PCB-Lock
Y-ConJack-21	8	2	90°	PCB-Lock
Y-ConJack-21-PP	8	2	90°	Positioning pins
Y-ConJack-12	8	0	180°	Positioning pins
Y-ConJack-22-THR	8	2	180°	for THR soldering
Y-ConJack-22-WAVE	8	2	180°	for Wave soldering

OUTLINE DIMENSIONS

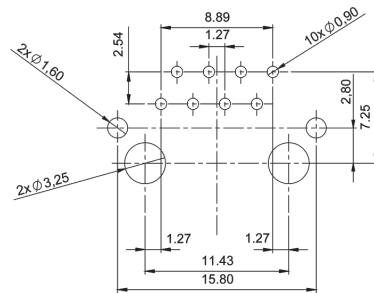
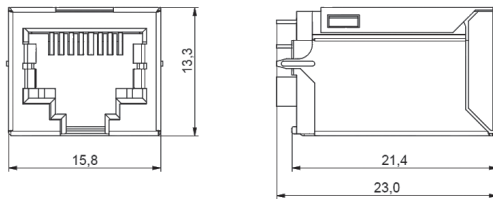
Y-ConJack-21



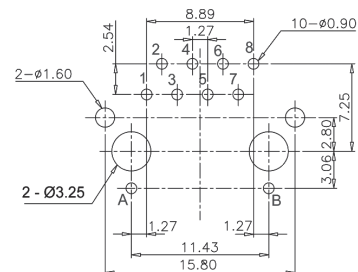
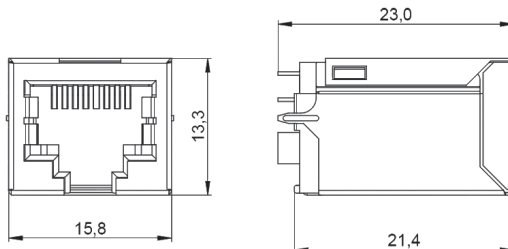
Y-ConJack-2 1-PP



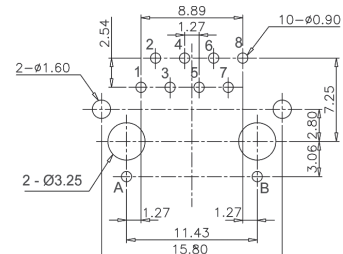
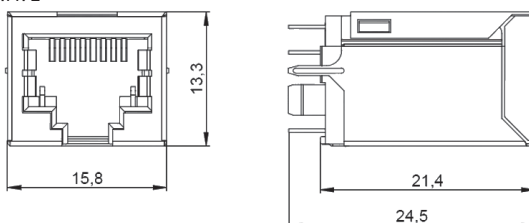
Y-ConJack-12

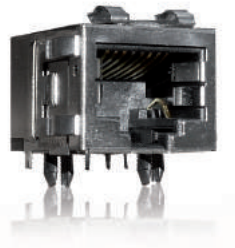


Y-ConJack-22-THR



Y-ConJack-22-WAVE





PART NUMBER

Y-ConJack - * 1 - 3C - *

Series

Power Contacts 1 = without 2 = with

1 = 90°

3C = EMI version

* = Shielding (see table below)

SERIES Y-ConJack

DESCRIPTION

RJ45 EMI jack, Cat 5, 90° for THR soldering.
Available also with power contacts. Additional shield clips for improved EMI performance.
For use with all Y-Con plugs

RJ45 EMV Buchse Cat 5, 90° für THR-Verlötung.
Auch mit Kontakten für die Stromversorgung. Zusätzliche Schirmfedern verbessern die EMV Eigenschaften.
Für den Einsatz mit allen Y-Con Kabelsteckern

MATERIAL

Jack body PA, UL94V-0
Isolierkörper

Shielding Nickel plated brass
Shield Clips Stainless Steel
Schirmung

Contact Contact area 30μ"Au/50μ"Ni
Kontakte Solder area 80μ"Sn/50μ"Ni

SPECIFICATIONS

Operating Temp.: -40°C ~ +120°C
Betriebstemp.

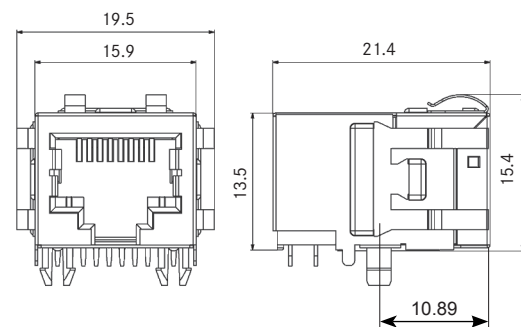
Solder Temp. Reflow max. 260°C / 10sec.
Löttemp.

Durability 1,500 mechanical cycles
Lebensdauer

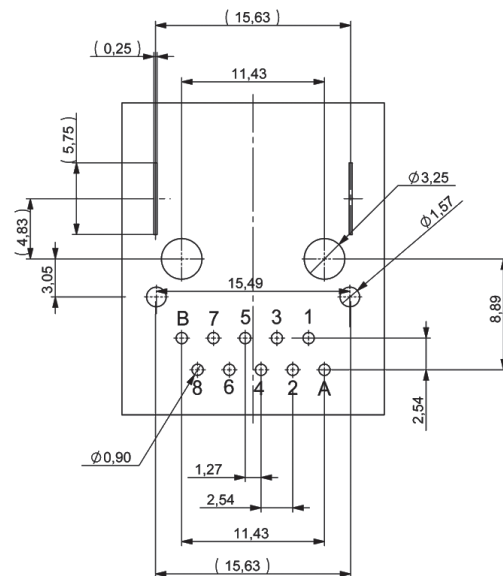
Current Rating 2.1A @ 70°C (power contacts)
Bemessungsstrom

OUTLINE DIMENSIONS

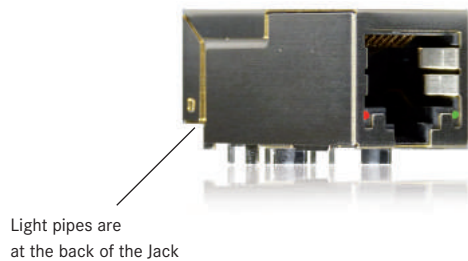
Example Y-ConJack-21-3C-7



OUTLINE DIMENSIONS / PCB LAYOUT



Part Number	Signal Contacts	Power Contacts	Orientation	Shielding Orientation
Y-ConJack-11-3C-1	8	0	90°	left
Y-ConJack-11-3C-2	8	0	90°	top
Y-ConJack-11-3C-3	8	0	90°	right
Y-ConJack-11-3C-4	8	0	90°	left + top
Y-ConJack-11-3C-5	8	0	90°	right + top
Y-ConJack-11-3C-6	8	0	90°	right + left
Y-ConJack-11-3C-7	8	0	90°	left + top + right
Y-ConJack-21-3C-1	8	2	90°	left
Y-ConJack-21-3C-2	8	2	90°	top
Y-ConJack-21-3C-3	8	2	90°	right
Y-ConJack-21-3C-4	8	2	90°	left + top
Y-ConJack-21-3C-5	8	2	90°	right + top
Y-ConJack-21-3C-6	8	2	90°	right + left
Y-ConJack-21-3C-7	8	2	90°	left + top + right



PART NUMBER

Y-ConJack - 3 *

Series

3 = 90°

See table below

SERIES Y-ConJack

DESCRIPTION

RJ45 jack 90° with magnetics and light pipes.
For THR soldering. Also available with power contacts.
For different combinations please see table below.
Light pipes enable the usage of the same jack even for different LED colours. For use with all Y-Con plugs

RJ45-Buchse 90° mit Magnetic-Baustein und Lichtleiter für THR-Verlötung. Auch mit zusätzlichen Kontakten für die Stromversorgung.
Verschiedene Kombinationsmöglichkeiten siehe It. Tabelle.
Lichtleiter ermöglicht die Verwendung der identischen Buchse für verschiedenfarbige LEDs.

MATERIAL

Jack body PA, UL94V-0
Isolierkörper

Shielding Nickel plated brass
Schirmung

Contact Contact area 30µ" Au/50µ" Ni
Kontakte Solder area 80µ" Sn/50µ" Ni

SPECIFICATIONS

Operating Temp. -40°C ~ +120°C
Betriebstemp.

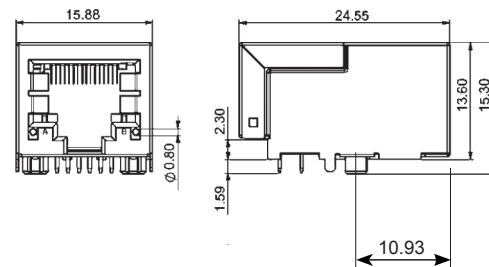
Solder Temp. Reflow max. 260°C / 10sec.
Löttemp.

Durability 1,500 mechanical cycles
Lebensdauer

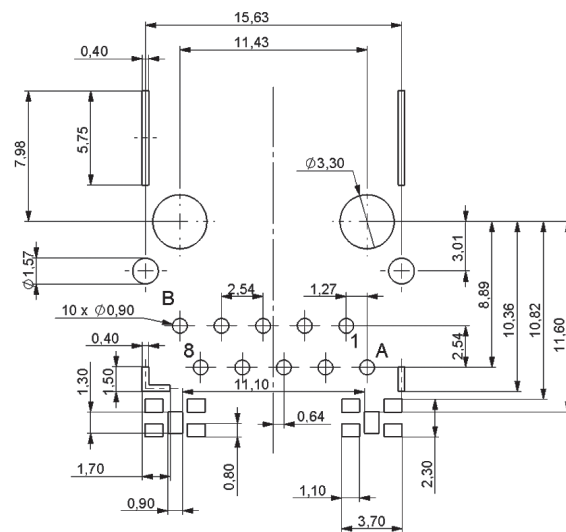
Current Rating 2.1A @ 70°C (power contacts)
Bemessungsstrom

OUTLINE DIMENSIONS

Y-ConJack-31



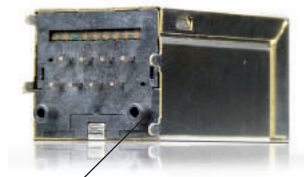
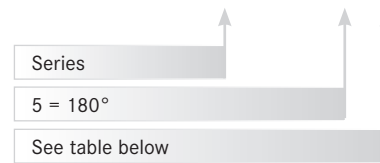
PCB LAYOUT



Part Number	Signal Contacts	Power Contacts	Orientation	Magnetics	Light Pipes
Y-ConJack-31	8	2	90°	Yes	Yes
Y-ConJack-32	8	2	90°	Yes	No
Y-ConJack-33	8	2	90°	No	Yes
Y-ConJack-34	8	2	90°	No	No
Y-ConJack-35	8	0	90°	Yes	Yes
Y-ConJack-36	8	0	90°	Yes	No

PART NUMBER

Y-ConJack - 5 *



Back view of Jack showing light pipes

SERIES Y-ConJack

DESCRIPTION

RJ45 jack 180° with magnetics and light pipes. For THR soldering. Also available with power contacts. For different combinations please see table below. Light pipes enable the usage of the same jack even for different LED colours. For use with all Y-Con plugs

RJ45-Buchse 180° mit Magnetic-Baustein und Lichtleiter für THR-Verlötung. Auch mit zusätzlichen Kontakten für die Stromversorgung. Verschiedene Kombinationsmöglichkeiten siehe lt. Tabelle. Lichtleiter ermöglicht die Verwendung der identischen Buchse für verschiedenfarbige LEDs.

MATERIAL

Jack body	PA, UL94V-0
Isolierkörper	
Shielding	Nickel plated brass
Schirmung	
Contact	Contact area 30µ"Au/50µ"Ni
Kontakte	Solder area 80µ"Sn/50µ"Ni

SPECIFICATIONS

Operating Temp. -40°C ~ +120°C
Betriebstemp.

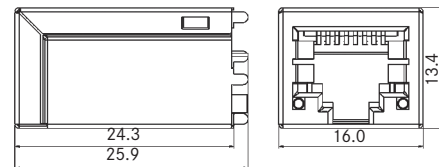
Solder Temp. Reflow max. 260°C / 10sec.
Löttemp.

Durability 1,500 mechanical cycles
Lebensdauer

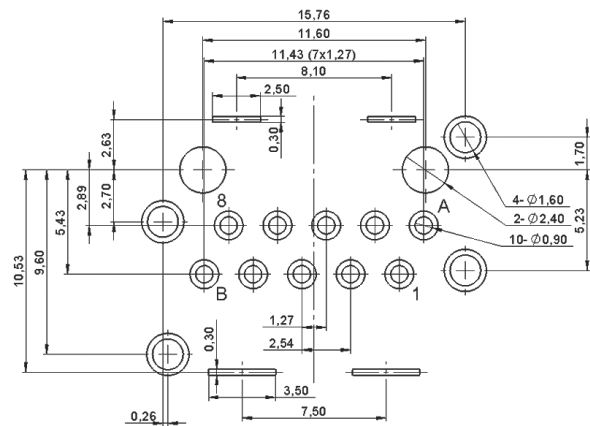
Current Rating 2.1A @ 70°C (power contacts)
Bemessungsstrom

OUTLINE DIMENSIONS

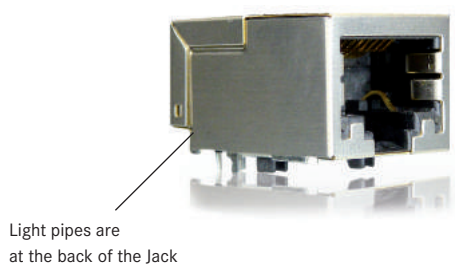
Y-ConJack-51



PCB LAYOUT



Part Number	Signal Contacts	Power Contacts	Orientation	Magnetics	Light Pipes
Y-ConJack-51	8	2	180°	Yes	Yes
Y-ConJack-52	8	2	180°	Yes	No
Y-ConJack-53	8	2	180°	No	Yes
Y-ConJack-54	8	2	180°	No	No
Y-ConJack-55	8	0	180°	Yes	Yes
Y-ConJack-56	8	0	180°	Yes	No



PART NUMBER

Y-ConJack - 6 *

Series	
$6 = 90^\circ \text{ CAT}_A$	
See table below	

SERIES Y-ConJack

DESCRIPTION

RJ45 jack 90°, CAT6_A according to ISO/IC11801 standard.
Available with additional power contacts and light pipes.
For use with all Y-Con plugs

RJ45-Buchse 90°, CAT6_A gemäß ISO/IEC 11801. Mit zusätzlichen Lichtleitern und Kontakten für die Stromversorgung verfügbar. Für den Einsatz mit allen Y-Con Kabelsteckern

MATERIAL

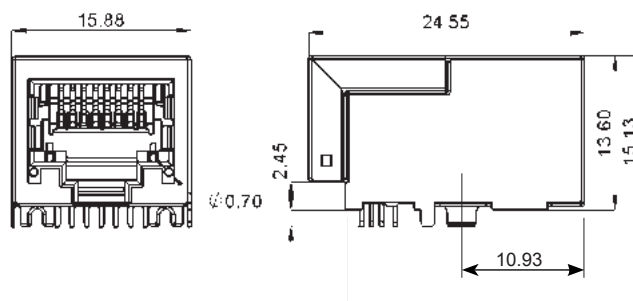
Jack body Isolierkörper	PA, UL94V-0		
Shielding Schirmung	Nickel plated brass		
Contact Kontakte	Contact area	30μ"Au/50μ"Ni	
	Solder area	80μ"Sn/50μ"Ni	

SPECIFICATIONS

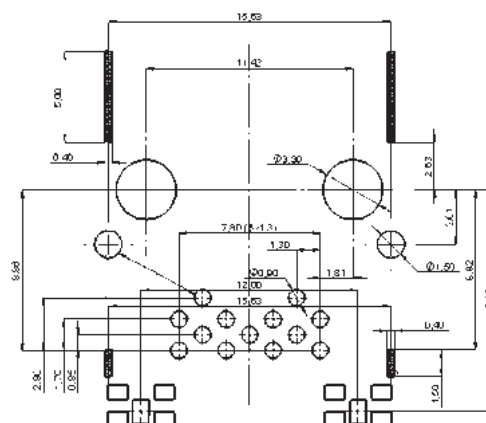
Operating Temp. Betriebstemp.	-40°C ~ +120°C
Solder Temp. Löttemp.	Reflow max. 260°C / 10sec.
Durability Lebensdauer	1,500 mechanical cycles
Current Rating Bemessungsstrom	3.1A @ 70°C (power contacts)

OUTLINE DIMENSIONS

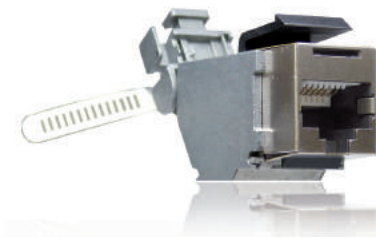
Y-Conlack-31



PCB LAYOUT



Part Number	Power Contacts	Light Pipes
Y-ConJack-61	Yes	Yes
Y-ConJack-62	Yes	No
Y-ConJack-63	No	Yes
Y-ConJack-64	No	No



Adapter for
Y-ConJack-16K



Adapter for
Y-ConJack-16KM

PART NUMBER

Y-ConJack - 16 K M

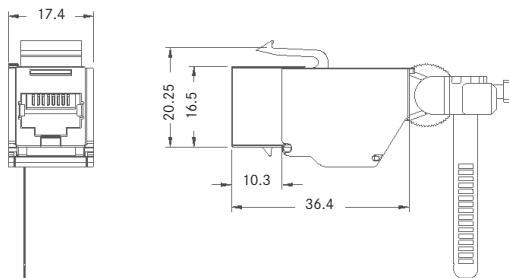
Series				
Design Number				
K = for use with Y-ConFlange-10-* only				
KM = for use with Y-ConFlange-40-* only				

SERIES Y-ConJack

DESCRIPTION

RJ45, Cat 6, shielded Keystone jack 8 pin tool free. (Cat 6 i.a.w. ANSI / TIA / EIA 568-B.2-1) For AWG 24-26 (insulation $\varnothing$ 1.0 - 1.6mm). For use with Y-ConFlange-10-* or Y-ConFlange-40-*

RJ45, Cat 6, geschirmte Buchse 8-polig, werkzeuglos. (Cat 6 nach ANSI / TIA / EIA 568-B.2-1). Für AWG 24-26 (Isolation $\varnothing$ 1.0 - 1.6mm). Für den Einsatz mit Y-ConFlange-10-* oder Y-ConFlange-40-*



MATERIAL

Jack body	Die-cast zinc
RJ45 body	PA46
Isolierkörper	
RJ45 shield	Tin Plated Brass
Schirmung	
RJ45 contact	40 μ " Au/CuBe
IDC contact	CuZn37
Kontakte	

SPECIFICATIONS

Operating Temp.: -40°C ~ +80°C
Betriebstemp.

Durability: 750 mechanical cycles
Lebensdauer



Adapter for
Y-ConJack-16



Adapter for
Y-ConJack-16M

PART NUMBER

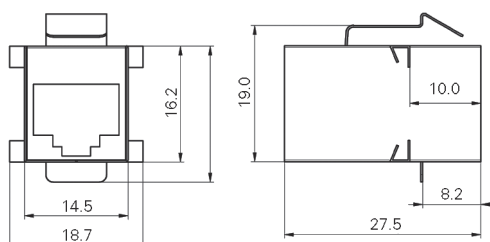
Y-ConJack - 16 M

Series				
16 = for use with Y-ConFlange-10-* only				
M = for use with Y-ConFlange-40-* only				

DESCRIPTION

RJ45 180° coupler jack, Cat 5, with 8 pin 1:1 wiring, (including flange adapter and locking clip). For use with Y-ConFlange-10-* or Y-ConFlange-40-*

RJ45 180°-Verbindungsbuchse, Cat 5, mit 8-poliger 1:1-Verdrahtung (inklusive Flansch-Adapter und Stopper-Keil). Für den Einsatz mit Y-ConFlange-10-* oder Y-ConFlange-40-*



MATERIAL

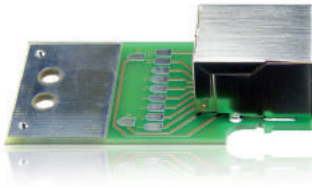
Jack body	PBT, UL94V-0
Isolierkörper	
Shielding	Stainless Steel
Schirmung	
Contact	Contact area Au/Ni
Kontakte	
Adapter / Locking Clip	PBT, UL94V-0 PA, UL94V-0

SPECIFICATIONS

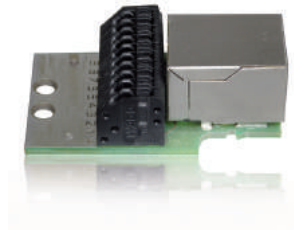
Operating Temp. -20°C ~ +80°C
Betriebstemp.

Durabilit: 750 mechanical cycles
Lebensdauer

Y-ConJack-13 / -23



Y-ConJack-14 / -24



PART NUMBER

Y-ConJack - * *

Series

Power Contacts 1 = w/o. 2 = with

Design Number

SERIES Y-ConJack

DESCRIPTION

RJ45 PCB mounted jacks, Cat 5, with or without power contacts.
For use with Y-ConFlange-10-*, Y-ConFlange-40-*
and all Y-Con plugs

RJ45 Buchse auf PCB, Cat 5, mit oder ohne zusätzliche Kontakte
für die Stromversorgung. Für den Einsatz mit Y-ConFlange-10-*,
Y-ConFlange-40-* und allen Y-Con Kabelsteckern

MATERIAL

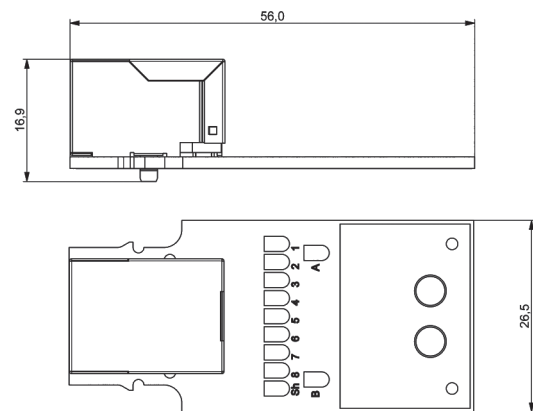
Jack body Isolierkörper	PA, UL94V-0
Shielding Schirmung	Nickel plated brass
Contact Kontakte	Contact area 30μ"Au/50μ"Ni
PCB	FR4, UL94V-0

SPECIFICATIONS

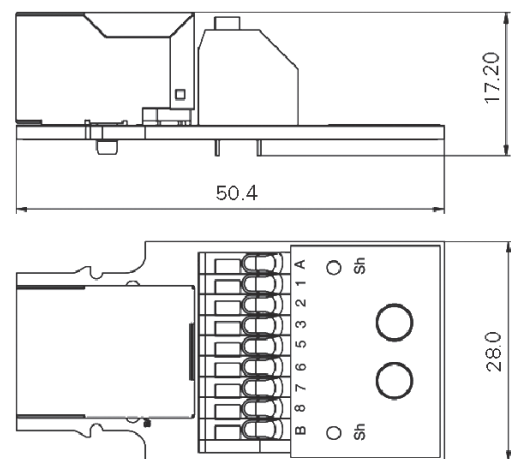
Operating Temp. Betriebstemp.	-40°C ~ +120°C
Durability Lebensdauer	1,500 mechanical cycles
Current Rating Bemessungsstrom	2.1A @ 70°C (power contacts)

OUTLINE DIMENSIONS

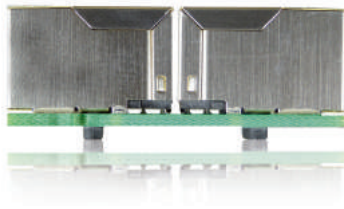
Y-ConJack-13 / -23



Y-ConJack-14 / -24



Part Number	Signal Contacts	Power Contacts	Orientation	PCB
Y-ConJack-13	8	0	90°	with solder pads
Y-ConJack-23	8	2	90°	with solder pads
Y-ConJack-14	8	0	90°	with terminals
Y-ConJack-24	8	2	90°	with terminals



PART NUMBER

Y-ConJack - * *

Series

Power Contacts 1 = w/o. 2 = with

Design Number

SERIES Y-ConJack

DESCRIPTION

RJ45 coupler jacks PCB mounted, Cat 5, with 4 pin crossover wiring, with or without power contacts.
For use with Y-ConFlange-10-*, Y-ConFlange-40-* and all Y-Con plugs

RJ45 Verbindungsbuchse auf PCB, Cat 5, mit 4-poliger Crossover-Verdrahtung, mit oder ohne zusätzliche Kontakte für die Stromversorgung. Für den Einsatz mit Y-ConFlange-10-*, Y-ConFlange-40-* und allen Y-Con Kabelsteckern

MATERIAL

Jack body Isolierkörper	PA, UL94V-0
Shielding Schirmung	Nickel plated brass
Contact Kontakte	Contact Area 30μ" Au/50μ" Ni
PCB	FR4, UL94V-0

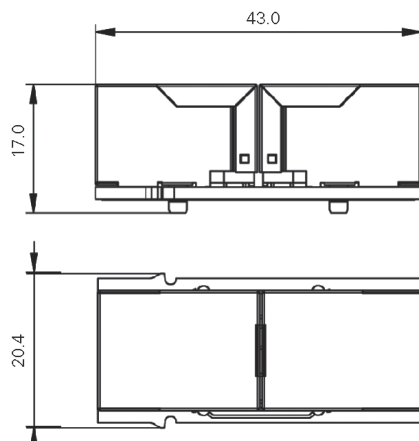
SPECIFICATIONS

Operating Temp. -40°C ~ +120°C
Betriebstemp.

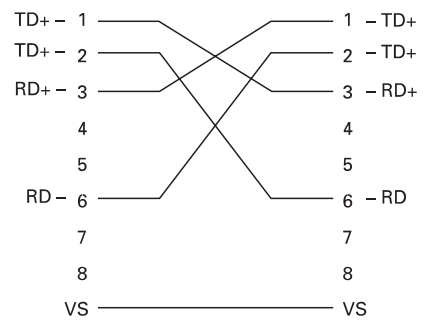
Durability 1,500 mechanical cycles
Lebensdauer

Current Rating 2.1A @ 70°C (power contacts)
Bemessungsstrom

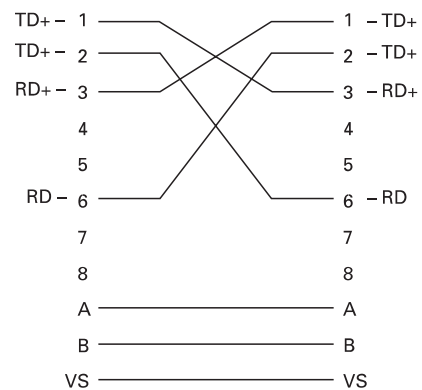
OUTLINE DIMENSIONS



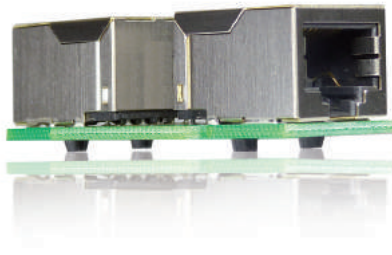
Wiring Diagram for Y-ConJack-15



Wiring Diagram for Y-ConJack-25



Part Number	Signal Contacts	Power Contacts	Orientation	PCB
Y-ConJack-15	4	0	90°	Coupler Jack (wiring crossover)
Y-ConJack-25	4	2	90°	Coupler Jack (wiring crossover)



PART NUMBER

Y-ConJack - 2 *C

Series

Power Contacts

Design Number

SERIES Y-ConJack

DESCRIPTION

RJ45 coupler jacks PCB mounted Cat 5.
With power contacts and crossover or 1:1 wiring.
For use with Y-ConCoupler-10-*

RJ45 Verbindungsbuchse auf PCB, Cat 5, Crossover
oder 1 : 1 Vedrahtung. Mit zusätzlichen Kontakten für
die Stromversorgung. Für den Einsatz mit Y-ConCoupler-10-*

MATERIAL

Jack body Isolierkörper	PA, UL94V-0
Shielding Schirmung	Nickel plated brass
Contact Kontakte	Contact Area 30μ"Au/50μ"Ni
PCB	FR4, UL94V-0

SPECIFICATIONS

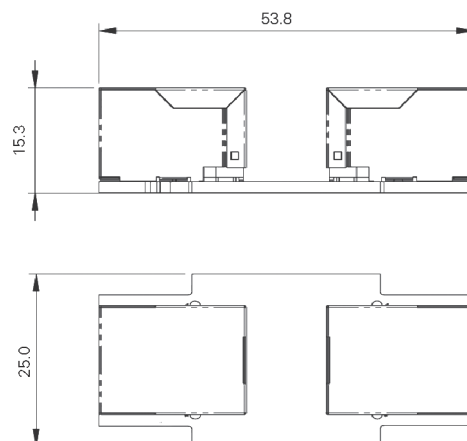
Operating Temp. -40°C ~ +120°C
Betriebstemp.

Durability 1,500 mechanical cycles
Lebensdauer

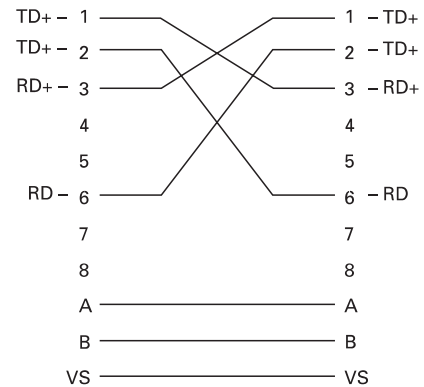
Current Rating 2.1A @ 70°C (power contacts)
Bemessungsstrom

OUTLINE DIMENSIONS

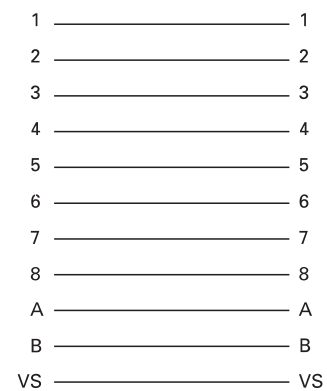
Y-ConJack-25C / -26C



Wiring Diagram for Y-ConJack-25C



Wiring Diagram for Y-ConJack-26C



Part Number	Signal Contacts	Power Contacts	Orientation	PCB
Y-ConJack-25C	4	2	90°	Coupler Jack (wiring crossover)
Y-ConJack-26C	8	2	90°	Coupler Jack (wiring 1: 1)



PART NUMBER

Y-ConOutlet - **

Series

Design Number (see table below)

SERIES Y-ConOUTLET

DESCRIPTION

IP67 industrial outlets for structured cabling, including Y-ConFlange-10-* and cable fixing

IP67-geschützte Anschlussdosen für strukturierte Verkabelung, mit montiertem Y-ConFlange-10-* und Kabelverschraubung

MATERIAL

Housing Aluminium
Gehäuse

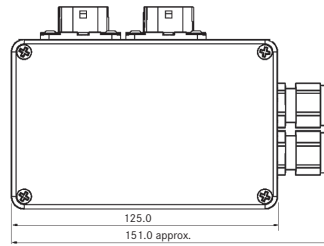
Flange PBT, UL94V-0
Flansch

Cable gland Nylon 6, UL94V-0
Kabelverschraubung

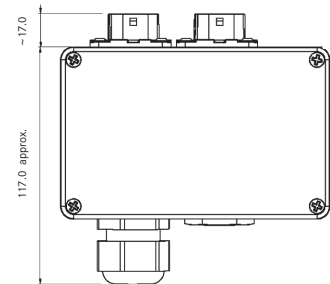
SPECIFICATIONS

Operating Temp. -20°C ~ +80°C
Betriebstemp.

Y-ConOutlet-10

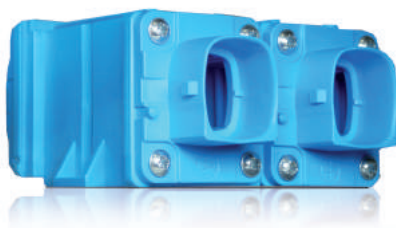


Y-ConOutlet-11



Part Number	Cable Outlet Diameter Size
Y-ConOutlet-10	5.0 to 9.0mm
Y-ConOutlet-11	6.0 to 13.0mm

SERIES Y-ConCOUPLER



PART NUMBER

Y-ConCoupler - ** *

Series

Design Number
(see table below)

No Mark = Blue B = Black

DESCRIPTION

IP67 coupler module (w/o electronics) screw mount, guide rails for modular assembly

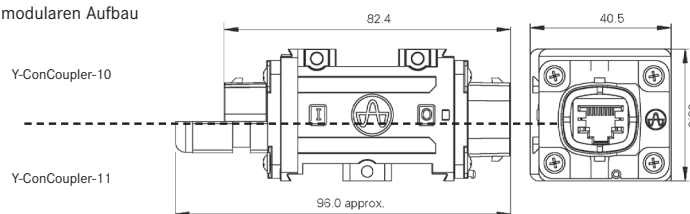
IP67 Kupplungsmodule (ohne Elektronik) mit Schraubhalterung und Führungsschienen für modularen Aufbau

MATERIAL

PBT, UL94V-0

SPECIFICATIONS

Operating Temp.: -30°C ~ +120°C
Betriebstemp.

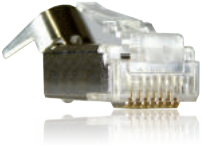


Part Number	No. of Y-ConFlange-10*	Colour
Y-ConCoupler-10	2	Blue
Y-ConCoupler-10-B	2	Black
Y-ConCoupler-11	1 (plus cable gland Ø5.0 -9.0mm)	Blue
Y-ConCoupler-11-B	1 (plus cable gland Ø5.0 -9.0mm)	Black

TEST	REQUIREMENT	STANDARDS
Vibration	10-500Hz, 50g, no contact interrupt >30ns	DIN IEC 60068-2-6
Shock	1 mio. shocks at 50g	-
Mating / Unmating Force IP20	< 20N	DIN EN 60603-7
Effectiveness of lock	50N for 60sec	DIN EN 60603-7
Rapid change of temperature	-40 ~ +85°C for 100 cycles	DIN IEC 60068-2-14
Dry heat	80°C + 120°C for 1,000 hrs	DIN IEC 60068-2-2
Damp heat	40°C, 93% humidity for 56 days	DIN IEC 60068-2-78
Industrial atmosphere	4 gases for 10 days	DIN IEC 60068-2-60 (method 4)
Electrical load	1.5A for 1,000 hrs	DIN IEC 60512-5
Current rating	2.1A at 70°C	DIN IEC 60512-5-2
Strain relief	80N static + 30N dynamic	DIN 57472-625
Drag Chain	min. 100,000 up to max. 1 mio. cycles	-
Ultraviolet radiation	40°C, 16 hrs at 700W + 16 hrs at 0W	DIN IEC 60068-2-9
Salt spray	48 hrs	DIN IEC 60068-2-11
Dust test	20mbar for 8 hrs	DIN EN60068-2-68
IP67	0.1 bar (= 1.0m depth) for 30 minutes	DIN 40050-9
IP68	0.1 bar (= 1.0m depth) for 48 hrs	DIN 40050-9
IP69K	High pressure water jet (80 bar) from 4 positions x 30 seconds 80°C water temperature	DIN 40050-9

**RESULTS ONLY APPLY TO SPECIFIC PRODUCTS. NOT ALL TESTS WERE CARRIED OUT ON ALL PRODUCTS.
FUTHER DETAILS ON REQUEST.**

PLUG PART NUMBER RJ45-P8805PCSC-AAT24



DESCRIPTION

RJ45 Plug shielded CAT5 with 8 positions and 8 contacts. Assembly with tool.

MATERIAL

Plug body	PC, UL94V-0
Shielding	Nickel plated brass
Contact	Contact area 30μ"Au over Ni

SPECIFICATIONS

Durability	1,000 mechanical cycles
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ACCESSORIES PART NUMBER RJ45PAS-05



DESCRIPTION

IP20 strain relief red, other colours on request

MATERIAL

PVC

PLUG PART NUMBER RJ45-P8806PCSC-AAT24



DESCRIPTION

RJ45 Plug shielded CAT6 with 8 positions and 8 contacts. Assembly with tool.

MATERIAL

Plug body	PC, UL94V-0
Shielding	Nickel plated brass
Contact	Phosphor bronze
Contact area	30μ"Au over Ni

SPECIFICATIONS

Durability	1,000 mechanical cycles
------------	-------------------------

ACCESSORIES PART NUMBER RJ45PAS-06



DESCRIPTION

IP20 strain relief blue, other colours on request

MATERIAL

ABS

PLUG PART NUMBER RJ45-P8806APCSC-AAT24



DESCRIPTION

RJ45 Plug shielded CAT6 with 8 positions and 8 contacts. Assembly with tool.

MATERIAL

Plug body	PC, UL94V-0
Shielding	Nickel plated brass
Contact	Phosphor bronze
Contact area	30μ"Au over Ni

SPECIFICATIONS

Durability	1,000 mechanical cycles
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ACCESSORIES PART NUMBER RJ45PAS-06



DESCRIPTION

IP20 strain relief blue, other colours on request

MATERIAL

ABS

PATCH CABLE PART NUMBER. CPSRJ4508F-ORJOORD-035TXC

DESCRIPTION

STP cable PVC red, AWG24
Cable length 350mm

MATERIAL

Plating	Flash Gold
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other patch cables on request





PART NUMBER

TS6K88-S

Other variations are available on request

DESCRIPTION

RJ45 Jack SMT 90° unshielded, tab down with 8 positions and 8 contacts, low profile

RJ45 Buchse SMT 90° ungeschirmt, Tab down mit 8 Positionen und 8 Kontakten, mit niedriger Aufbauhöhe

MATERIAL

Jack body
Isolierkörper

High temp. thermoplastic, UL94V-0

Shielding
Schirmung

None

Contact
Kontakte

Phosphor bronze

Contact Area
Beschichtung Kontaktfläche

6μ "Au over Ni

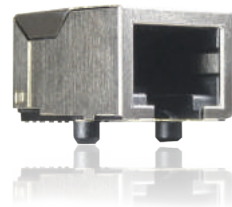
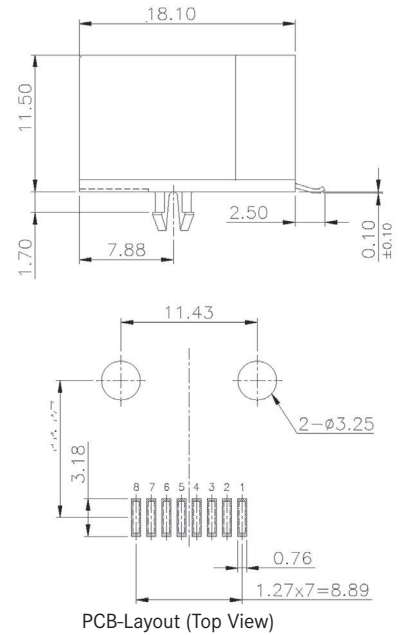
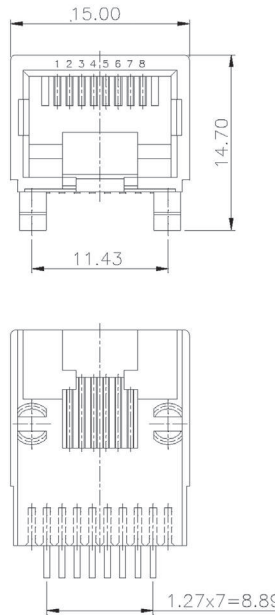
Solder Area
Beschichtung Lötfläche

Tin plating over Ni

SPECIFICATIONS

Durability:
Lebensdauer

1,000 mechanical cycles



PART NUMBER

TS30045T-8815MT-T&R

Other variations are available on request

DESCRIPTION

RJ45 Jack SMT 90° shielded, tab down with 8 positions and 8 contacts

RJ45 Buchse SMT 90° geschirmt, Tab down mit 8 Positionen und 8 Kontakten

MATERIAL

Jack body
Isolierkörper

Thermoplastic, UL94V-0

Shielding
Schirmung

Brass with nickel plating

Contact
Kontakte

Phosphor bronze

Contact Area
Beschichtung Kontaktfläche

6μ "Au over Ni

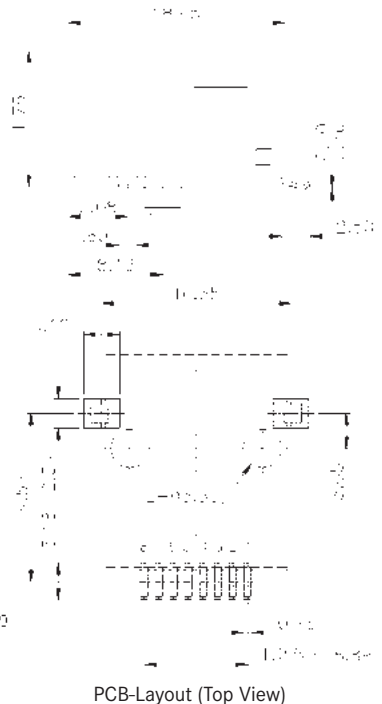
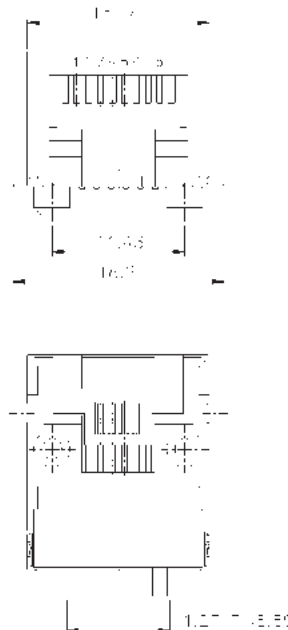
Solder Area
Beschichtung Lötfläche

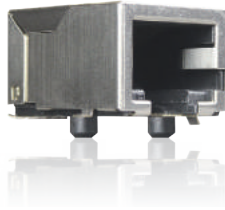
Tin plating over Ni

SPECIFICATIONS

Durability:
Lebensdauer

1,000 mechanical cycles





PART NUMBER

TS3004SMT-8P10C

Other variations are available on request

DESCRIPTION

RJ45 Jack SMT 90° shielded, tab down with 10 positions and 10 contacts
RJ45 Buchse SMT 90° geschirmt, Tab down mit 10 Positionen und 10 Kontakten

MATERIAL

Jack body
Isolierkörper Thermoplastic, UL94V-0

Shielding
Schirmung Nickel plated brass

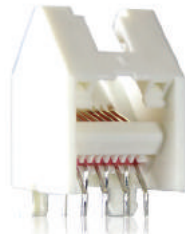
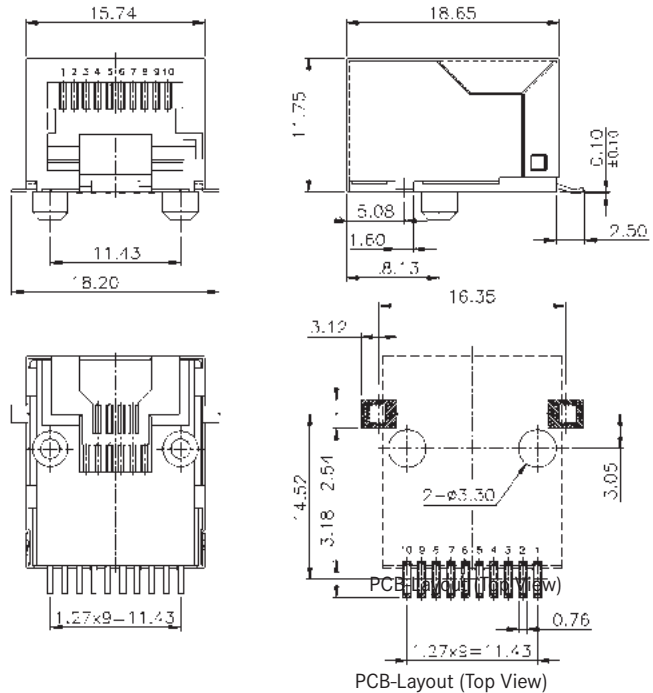
Contact
Kontakte Phosphor bronze

Contact Area
Beschichtung Kontaktfläche 6μ" Au over Ni

Solder Area
Beschichtung Lötfläche Tin plating over Ni

SPECIFICATIONS

Durability
Lebensdauer 1,000 mechanical cycles



PART NUMBER

TS3030-881

Other variations are available on request

DESCRIPTION

RJ45 Jack for wave soldering 45° unshielded, tab up with 8 positions and 8 contacts
RJ45 Buchse für Wellenlöten 45° ungeschirmt, Tab up mit 8 Positionen und 8 Kontakten

MATERIAL

Jack body
Isolierkörper Thermoplastic, UL94V-0

Shielding
Schirmung None

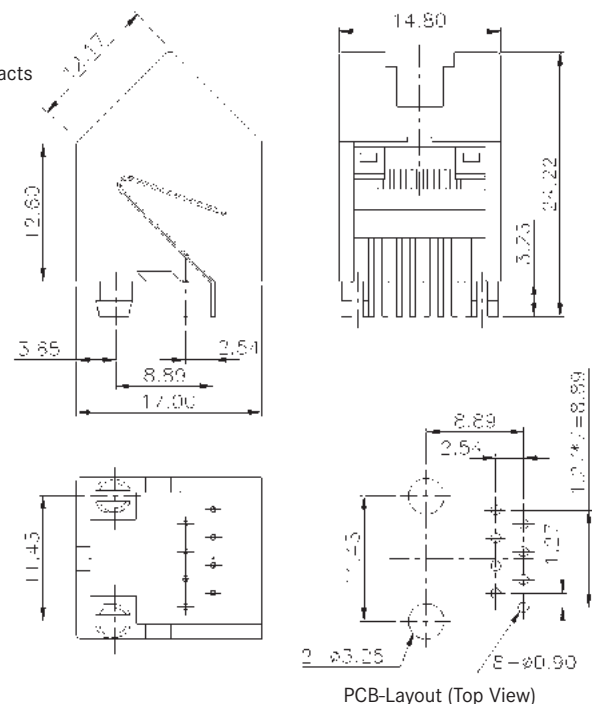
Contact
Kontakte Phosphor bronze

Contact Area
Beschichtung Kontaktfläche 6μ" Au over Ni

Solder Area:
Beschichtung Lötfläche Tin plating over Ni

SPECIFICATIONS

Durability
Lebensdauer 1,000 mechanical cycles





PART NUMBER

TS3046-881-LED-YG

Other variations are available on request

DESCRIPTION

RJ45 Jack for wave soldering 90° unshielded, tab up with 8 positions and 8 contacts, LED yellow-green

RJ45 Buchse für Wellenlöt 90° ungeschirmt, Tab up mit 8 Positionen und 8 Kontakten, LED gelb-grün

MATERIAL

Jack body	Thermoplastic, UL94V-0
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Isolierkörper

Shielding	None
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Schirmung

Contact	Phosphor bronze
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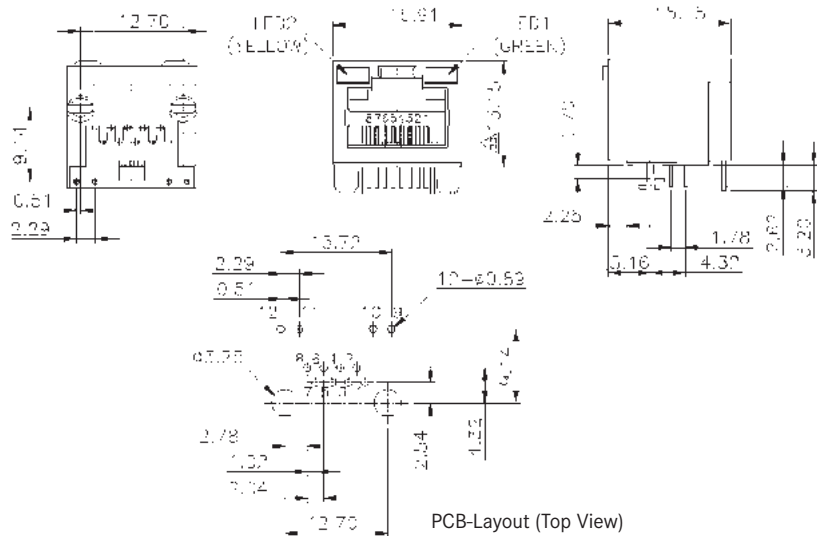
Kontakte

Contact Area	6μ "Au over Ni
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Beschichtung Kontaktfläche

Solder Area Tin plating over Ni

Beschichtung Lötfläche



SPECIFICATIONS

Durability	1,000 mechanical cycles
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Lebensdauer



PART NUMBER

TS6K88-A

Other variations are available on request

DESCRIPTION

RJ45 Jack for wave soldering 90° unshielded, tab down with 8 positions and 8 contacts, low profile

RJ45 Buchse für Wellenlöt 90° ungeschirmt, Tab down mit 8 Positionen und 8 Kontakten.mit niedriger Aufbauhöhe

MATERIAL

Jack body	Thermoplastic, UL94V-0
-----------	------------------------

Isolierkörper

Shielding	None
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Schirmung

Contact	Phosphor bronze
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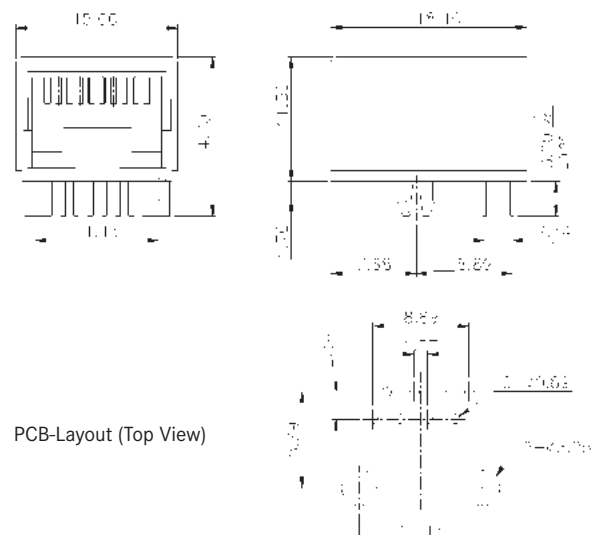
Kontakte

Contact Area	6μ" Au over Ni
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Beschichtung Kontaktfläche

Solder Area Tin plating over Ni

Beschichtung Lötfläche



SPECIFICATIONS

Durability	1,000 mechanical cycles
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Lebensdauer



PART NUMBER

TS30145-66-1

Other variations are available on request

DESCRIPTION

RJ45 Jack for wave soldering 90° shielded, tab down with 6 positions and 6 contacts
RJ45 Buchse für Wellenlöt 90° geschirmt, Tab down mit 6 Positionen und 6 Kontakten

MATERIAL

Jack body
Isolierkörper

Thermoplastic, UL94V-0

Shielding
Schirmung

Nickel plated brass

Contact
Kontakte

Phosphor bronze

Contact Area
Beschichtung Kontaktfläche

6µ" Au over Ni

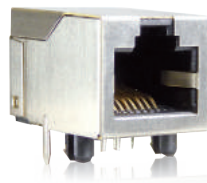
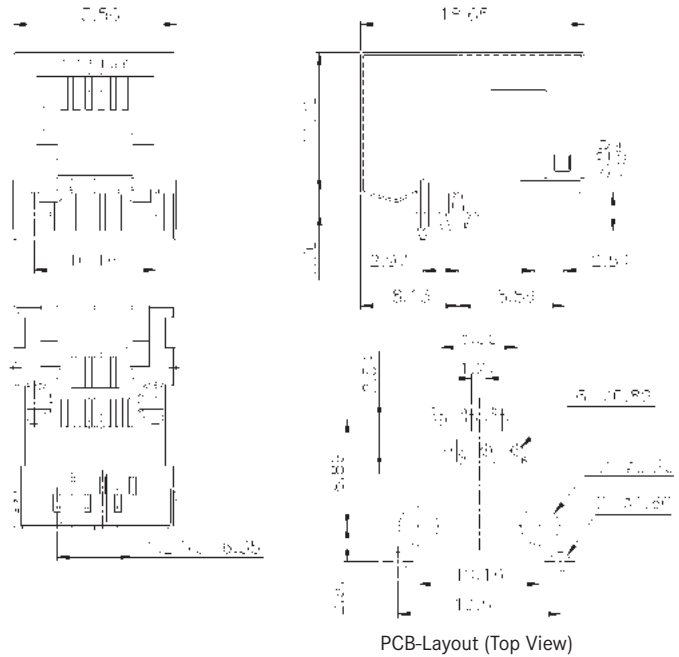
Solder Area
Beschichtung Lötfläche

Tin plating over Ni

SPECIFICATIONS

Durability
Lebensdauer

1,000 mechanical cycles



PART NUMBER

TS30465-88-1

Other variations are available on request

DESCRIPTION

RJ45 Jack for wave soldering 90° shielded, tab up with 8 positions and 8 contacts
RJ45 Buchse für Wellenlöt 90° geschirmt, Tab up mit 8 Positionen und 8 Kontakten

MATERIAL

Jack body
Isolierkörper

Thermoplastic, UL94V-0

Shielding
Schirmung

Nickel plated brass

Contact
Kontakte

Phosphor bronze

Contact Area:
Beschichtung Kontaktfläche

6µ" Au over Ni

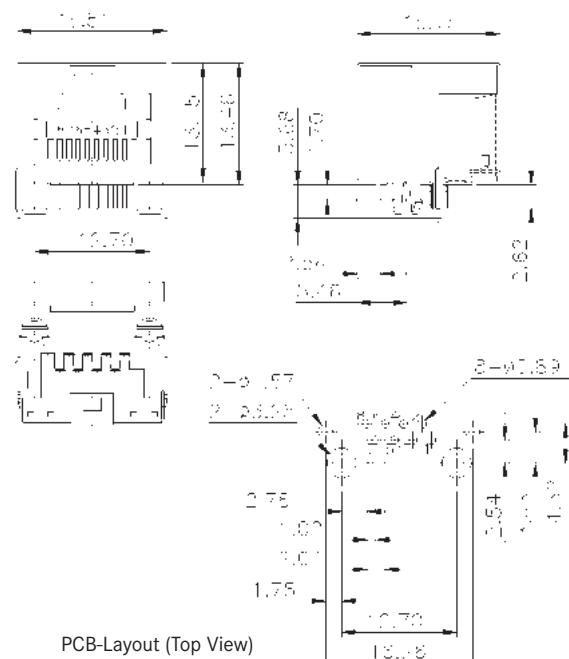
Solder Area
Beschichtung Lötfläche

Tin plating over Ni

SPECIFICATIONS

Durability
Lebensdauer

1,000 mechanical cycles





PART NUMBER

TS30145-88-1

Other variations are available on request

DESCRIPTION

RJ45 Jack for wave soldering 90° shielded, tab down with 8 positions and 8 contacts

RJ45 Buchse für Wellenlöten 90° geschirmt, Tab down mit 8 Positionen und 8 Kontakten

MATERIAL

Jack body
Isolierkörper Thermoplastic, UL94V-0

Shielding
Schirmung Nickel plated brass

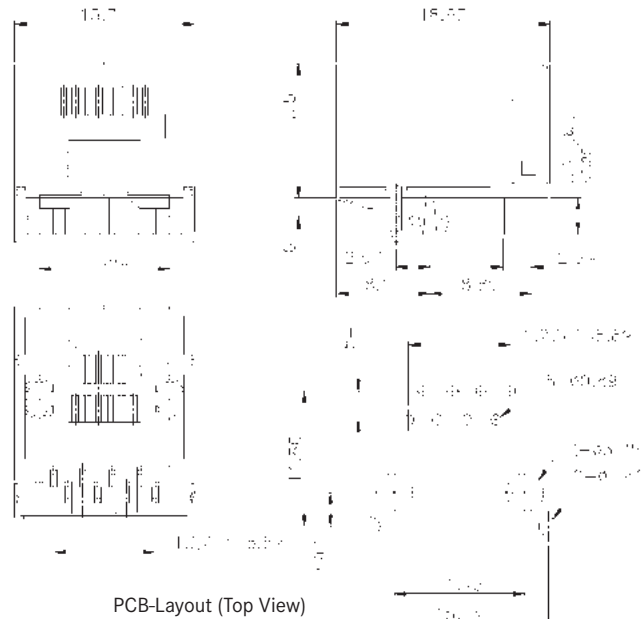
Contact
Kontakte Phosphor bronze

Contact Area
Beschichtung Kontaktfläche 6µ" Au over Ni

Solder Area
Beschichtung Lötfläche Tin plating over Ni

SPECIFICATIONS

Durability
Lebensdauer 1,000 mechanical cycles



PART NUMBER

TS30095-881R

Other variations are available on request

DESCRIPTION

RJ45 Jack for wave soldering 180° shielded, with 8 positions and 8 contacts

RJ45 Buchse für Wellenlöten 180° geschirmt, mit 8 Positionen und 8 Kontakten

MATERIAL

Jack body
Isolierkörper Thermoplastic, UL94V-0

Shielding
Schirmung Nickel plated brass

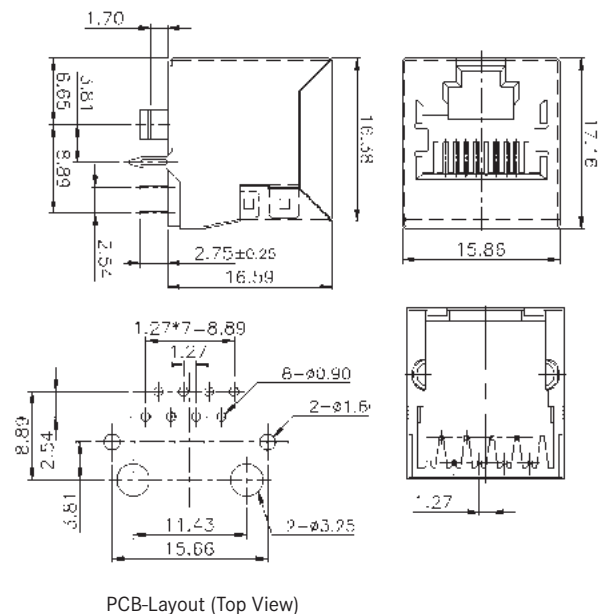
Contact
Kontakte Phosphor bronze

Contact Area
Beschichtung Kontaktfläche 6µ" Au over Ni

Solder Area
Beschichtung Lötfläche Tin plating over Ni

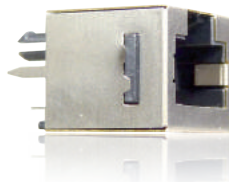
SPECIFICATIONS

Durability
Lebensdauer 1,000 mechanical cycles



PART NUMBER

TS301751-8821



Other variations are available on request

DESCRIPTION

RJ45 Jack for wave soldering 180° shielded, with 8 positions and 8 contacts
RJ45 Buchse für Wellenlöten 180° geschirmt, mit 8 Positionen und 8 Kontakten

MATERIAL

Jack body Thermoplastic, UL94V-0
Isolierkörper

Shielding Nickel plated brass
Schirmung

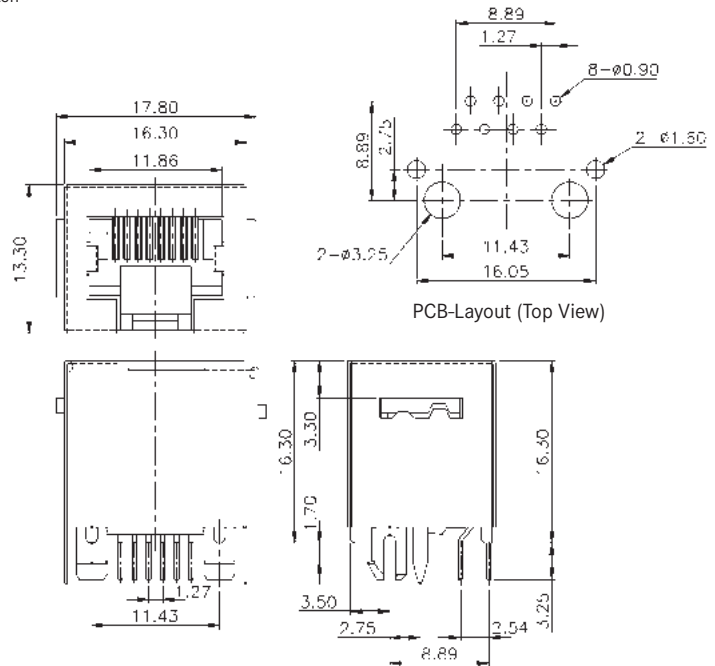
Contact Phosphor bronze
Kontakte

Contact Area 6μ" Au over Ni
Beschichtung Kontaktfläche

Solder Area Tin plating over Ni
Beschichtung Lötfläche

SPECIFICATIONS

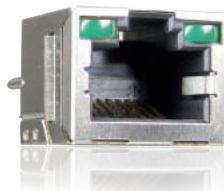
Durability 1,000 mechanical cycles
Lebensdauer



PART NUMBER

TS30615-881-GREEN-GREEN

Other variations are available on request



DESCRIPTION

RJ45 Jack for wave soldering 180° shielded, with 8 positions and 8 contacts, LED green-green
RJ45 Buchse für Wellenlöten 180° geschirmt, mit 8 Positionen und 8 Kontakten, LED grün-grün

MATERIAL

Jack body Thermoplastic, UL94V-0
Isolierkörper

Shielding Nickel plated brass
Schirmung

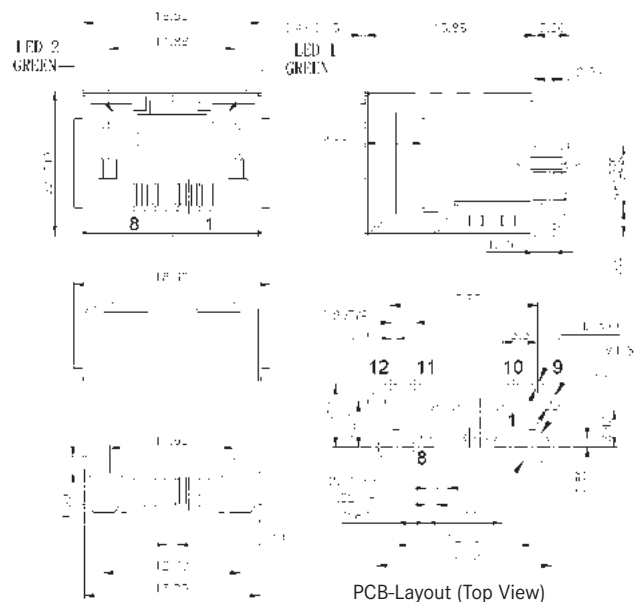
Contact Phosphor bronze
Kontakte

Contact Area 6μ" Au over Ni
Beschichtung Kontaktfläche

Solder Area Tin plating over Ni
Beschichtung Lötfläche

SPECIFICATIONS

Durability 1,000 mechanical cycles
Lebensdauer



PART NUMBER

TS31015-881



Other variations are available on request

DESCRIPTION

RJ45 Coupler Jack 180° shielded, with 8 positions and 8 contacts. 1:1 wiring
RJ45 Adapter-Buchse 180° geschirmt, mit 8 Positionen und 8 Kontakten mit 1:1 Verdrahtung

MATERIAL

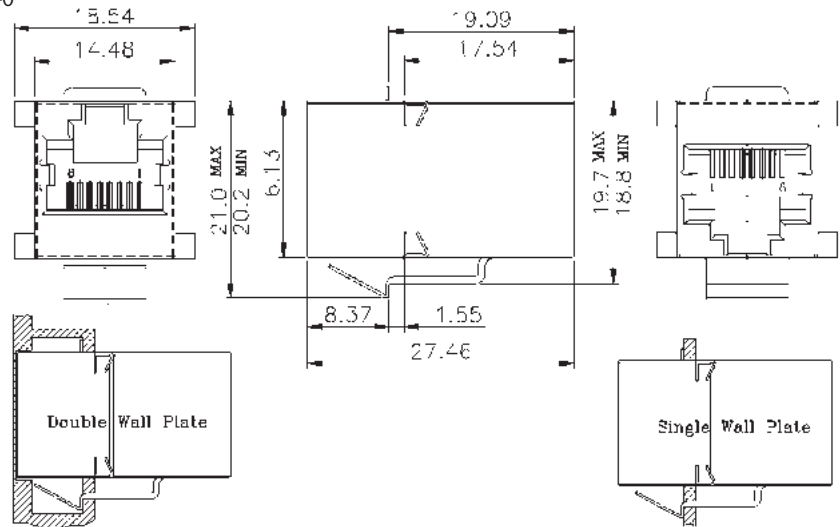
Jack body Thermoplastic, UL94V-0
Isolierkörper

Shielding Stainless Steel
Schirmung

Contact Phosphor bronze
Kontakte

Contact Area 6μ" Au over Ni
Beschichtung Kontaktfläche

Solder Area None
Beschichtung Lötfläche

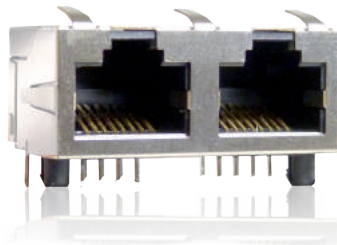


SPECIFICATIONS

Durability 1,000 mechanical
Lebensdauer cycles

PART NUMBER

TS30465-02880ER



Other variations are available on request

DESCRIPTION

RJ45 Double Port Jack (1 level x 2 ports) for wave soldering 90° shielded, tab up with 16 contacts and shield springs
RJ45 Doppel-Buchse (1 level x 2 ports) für Wellenlöten 90° geschirmt, Tab up mit 16 Kontakten und zusätzlichen Schirmfedern

MATERIAL

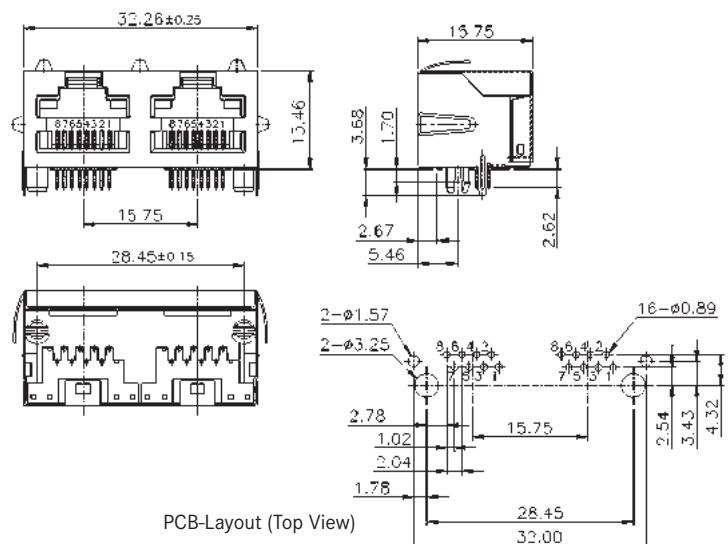
Jack body Thermoplastic, UL94V-0
Isolierkörper

Shielding Nickel plated brass
Schirmung

Contact Phosphor bronze
Kontakte

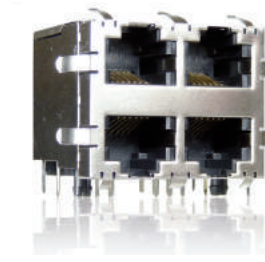
Contact Area 50μ" Au over Ni
Beschichtung Kontaktfläche

Solder Area Tin plating over Ni
Beschichtung Lötfläche



SPECIFICATIONS

Durability 1,000 mechanical
Lebensdauer cycles



PART NUMBER

TS30225-2661

Other variations are available on request

DESCRIPTION

RJ45 Quad Port Jack (2 level x 2 ports) for wave soldering 90° shielded, tab up/ down with 24 contacts and shield springs

RJ45 Quad-Port-Buchse (2 level x 2 ports) für Wellenlöten 90° geschirmt, Tab up/ down mit 24 Kontakten und zusätzlichen Schirmfedern

MATERIAL

Jack body
Isolierkörper

Tthermoplastic, UL94V-0

Shielding
Schirmung

Stainless steel

Contact
Kontakte

Phosphor bronze

Contact Area
Beschichtung Kontaktfläche

6μ" Au over Ni

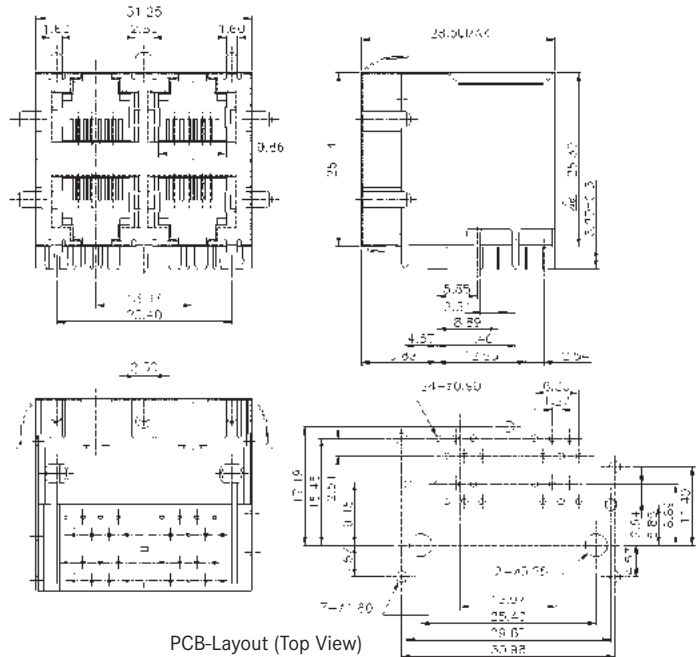
Solder Area
Beschichtung Lötfläche

Tin plating over Ni

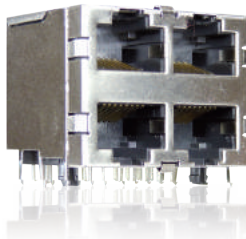
SPECIFICATIONS

Durability
Lebensdauer

1,000 mechanical cycles



PCB-Layout (Top View)



PART NUMBER

TS30225-2881

Other variations are available on request

DESCRIPTION

RJ45 Quad Port Jack (2 level x 2 ports) for wave soldering 90° shielded, tab up/down with 32 contacts and shield springs

RJ45 Quad-Port-Buchse (2 level x 2 ports) für Wellenlöten 90° geschirmt, Tab up/ down mit 32 Kontakten und zusätzlichen Schirmfedern

MATERIAL

Jack body
Isolierkörper

Tthermoplastic, UL94V-0

Shielding
Schirmung

Stainless Steel

Contact
Kontakte

Phosphor bronze

Contact Area
Beschichtung Kontaktfläche

6μ" Au over Ni

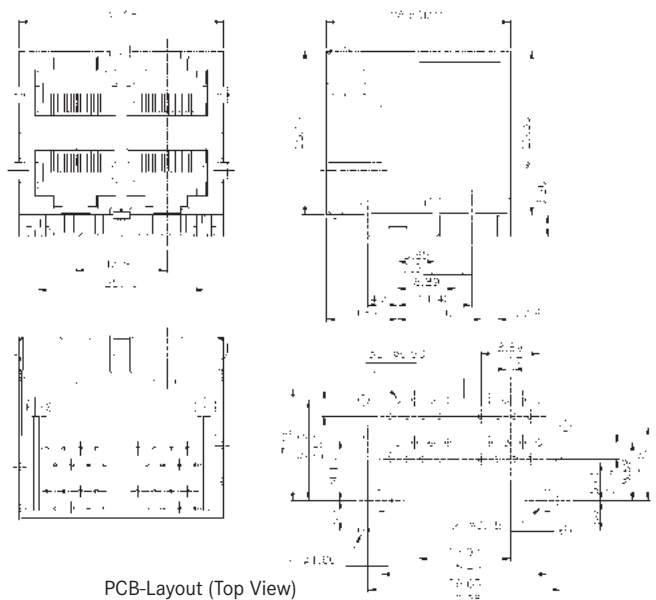
Solder Area
Beschichtung Lötfläche

Tin plating over Ni

SPECIFICATIONS

Durability
Lebensdauer

1,000 mechanical cycles



PCB-Layout (Top View)



PART NUMBER

Y-ConFlange - 10 - *

Series	
Design Number	
No Mark = Blue	B = Black

SERIES Y-ConFlange

DESCRIPTION:

Universal mounting flange with an integrated 2C seal (also in the screw area) to ensure IP6* protection when mounted with Y-ConCover-10-*

Universeller Gehäuseflansch mit integrierter 2K-Dichtung (auch im Schraubbereich). Damit sind für Y-ConCover-10-* im montierten Zustand die Schutzarten IP6* gewährleistet

MATERIAL

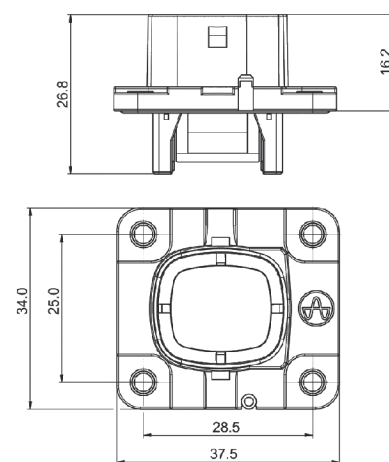
Flange Body PBT, UL94V-0
Flanschgehäuse

Flange Seal TPE, UL94 HB
Flanschdichtung

SPECIFICATIONS

Operating Temp. -40°C ~ +120°C
Betriebstemp.

OUTLINE DIMENSIONS



Part Number	Colour
Y-ConFlange-10	Blue
Y-ConFlange-10-B	Black

SERIES Y-ConUSB-Adapter



DESCRIPTION

Y-ConFlange adapter modules for use with Y-ConUSB-PCB-**Jacks

Y-ConFlange Adaptergehäuse für
Y-ConUSB-PCB-** Buchsen

PART NUMBER

Y-ConUSB-Adapter - **

Series	
Design Number (see table below)	

MATERIAL PBT, black

SPECIFICATIONS

Operating Temp.: -40°C ~ +120°C
Betriebstemp.

Part Number	Adapter Use
Y-ConUSB-Adapter-10	for all USB-A modules
Y-ConUSB-Adapter-20	for all USB-B modules

DESCRIPTION

Y-Con USB-A, IP67 / 68 / 69K and IP20 cable assembly in various configurations

Y-Con USB-A, IP67 / 68 / 69K und IP20 Kabelkonfektion in verschiedenen Konfigurationen

MATERIAL

Cable Jacket: PUR, black
Mantel

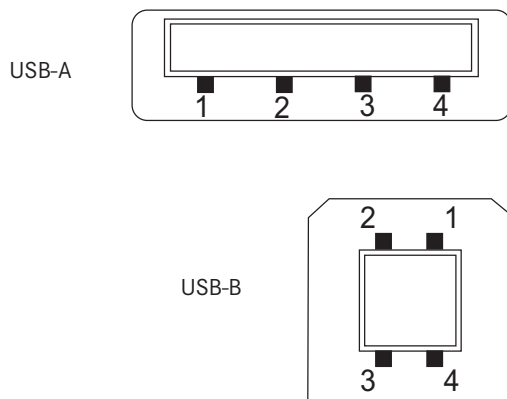
SPECIFICATIONS

Operating Temp. -25°C ~ +80°C
Betriebstemp.

Other cable lengths and raw cable specifications on request
Andere Kabellängen und Kabelspezifikation auf Anfrage erhältlich



WIRING INFORMATION (STANDARD)



Pin No.	Name	Color	Notes
1	VBUS	Red	Power
2	D-	White	Data - (Twisted pair)
3	D+	Green	Data + (Twisted pair)
4	GND	Black	Ground

Pin No.	Name	Color	Notes
1	VBUS	Red	Power
2	D-	White	Data -
3	D+	Green	Data + (Twisted pair)
4	GND	Black	Ground

DESCRIPTION

Y-Con USB-B, IP67 / 68 / 69K and IP20 cable assembly in various configurations

Y-Con USB-B, IP67 / 68 / 69K und IP20 Kabelkonfektion in verschiedenen Konfigurationen

MATERIAL

Cable Jacket: PUR, black
Mantel

SPECIFICATIONS

Operating Temp. -25°C ~ +80°C
Betriebstemp.

Other cable lengths and raw cable specifications on request
Andere Kabellängen und Kabelspezifikation auf Anfrage erhältlich



PART NUMBER DEFINITION

Example	Interface 1					-	Interface 2				-	Cable			
	CY	C	UA	6P	40		X	C	UB	2F		40	100	X	€
Connector Group C = Y-Con															
Interface UA = USB Type A UB = USB Type B															
Connector Type 6P = IP67 plastic cover 2S = IP20 strain relief 2F = IP20 flat 2L = IP20Lock Strain relief															
Number of Contacts 40 = 4+0 42 = 4+2 60 = 6+0 62 = 6+2 80 = 8+0 82 = 8+2															
Options x = no options															
Connector Group C = Y-Con Series F = Free end															
Interface UA = USB Type A UB = USB Type B For Free End EC = Free end (cut only) ET = Free end (Tin coated)															
Connector Type 6P = IP67 plastic cover 2S = IP20 strain relief 2F = IP20 flat 2L = IP20Lock Strain relief															
Number of Contacts 40 = 4+0 42 = 4+2 60 = 6+0 62 = 6+2 80 = 8+0 82 = 8+2															
Cable Length 100 = Length in cm															
Cable Type X = not used															
Wiring Plan E = Standard USB F = Custom															
Reserved for future features															

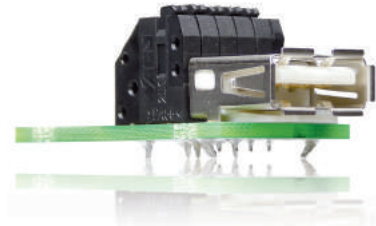
SERIES Y-ConUSB-PCB

PART NUMBER Y-ConUSB-PCB-11

USB-A Hi-Speed PCB mounted jack with PCB terminals¹⁾, including shield connection and fixing for cable straps. For use with Y-ConUSB-Adapter-10 and Y-ConFlange-10-*

USB-A Hi-Speed Buchse auf PCB mit Leiterplattenklemme¹⁾ inkl. Schirmanschluss und Bohrung für Kabelbinder. Für den Einsatz mit Y-ConUSB-Adapter-10 und Y-ConFlange-10-*

Operating Temp. -25°C ~ +80°C
Betriebstemp.



¹⁾ cable according to Y-Con recommendation - on request
Kabellänge gemäß Y-Con Empfehlung - auf Anfrage

PART NUMBER Y-ConUSB-PCB-12

USB-A / USB-A Hi-Speed PCB mounted coupler jack, for use with Y-ConUSB-Adapter-10 and Y-ConFlange-10-*

USB-A / USB-A Hi-Speed Buchse auf PCB. Für den Einsatz mit Y-ConUSB-Adapter-10 und Y-ConFlange-10-*

Operating Temp. -25°C ~ +80°C
Betriebstemp.



PART NUMBER Y-ConUSB-PCB-21

USB-B Hi-Speed PCB mounted jack with PCB terminals¹⁾, including shield connection and fixing for cable straps. For use with Y-ConUSB-Adapter-20 and Y-ConFlange-10-*

USB-B Hi-Speed Buchse auf PCB mit Leiterplattenklemme¹⁾ inkl. Schirmanschluss und Bohrung für Kabelbinder. Für den Einsatz mit Y-ConUSB-Adapter-20 und Y-ConFlange-10-*

Operating Temp. -25°C ~ +80°C
Betriebstemp.



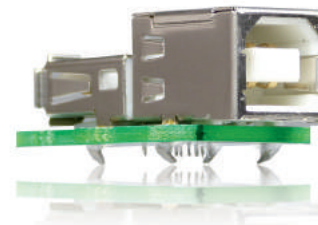
¹⁾ cable according to Y-Con recommendation - on request
Kabellänge gemäß Y-Con Empfehlung - auf Anfrage

PART NUMBER Y-ConUSB-PCB-22

USB-B / USB-A Hi-Speed PCB mounted coupler jack, for use with Y-ConUSB-Adapter-20 and Y-ConFlange-10-*

USB-B / USB-A Hi-Speed Buchse auf PCB. Für den Einsatz mit Y-ConUSB-Adapter-20 und Y-ConFlange-10-*

Operating Temp. -25°C ~ +80°C
Betriebstemp.

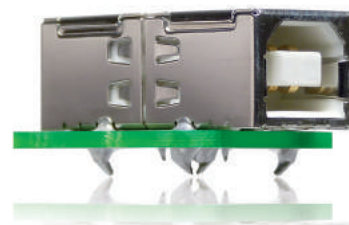


PART NUMBER Y-ConUSB-PCB-32

USB-B / USB-B Hi-Speed PCB mounted coupler jack, for use with Y-ConUSB-Adapter-20 and Y-ConFlange-10-*

USB-B / USB-B Hi-Speed Buchse auf PCB. Für den Einsatz mit Y-ConUSB-Adapter-20 und Y-ConFlange-10-*

Operating Temp. -25°C ~ +80°C
Betriebstemp.



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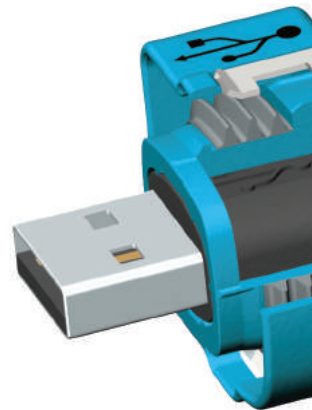
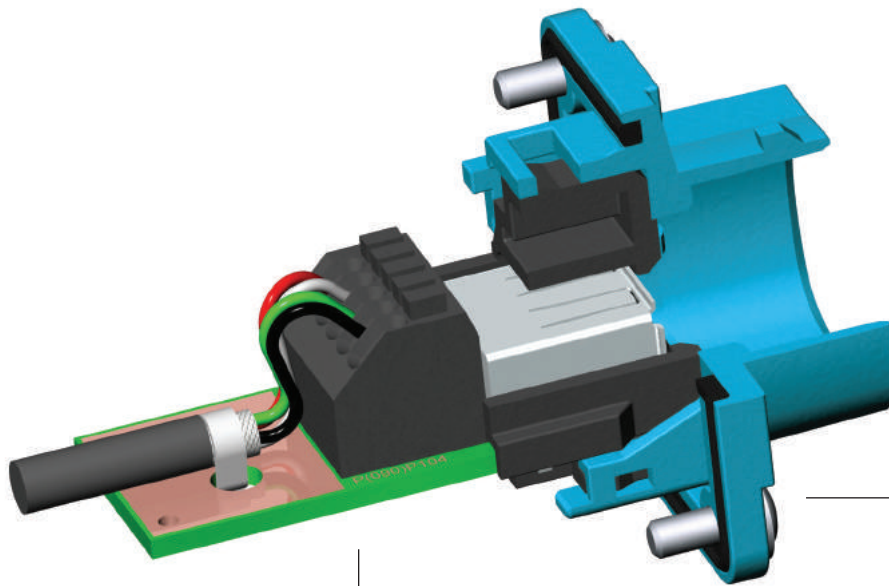
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Y-ConUSB connector system in plastic for harsh environments with the protection type IP20 or IP67/68/69K

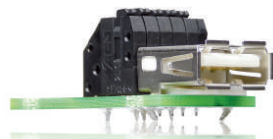
The Y-ConUSB series captivates by following features:

- Special IP20Lock mechanism for improved vibration resistance
- Optimized flange which was adapted to the sealing characteristics of the Y-Con cover
- Warranted fully backwards compatibility of the components

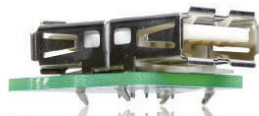
IP67 / IP68 / IP69K PROTECTION



Y-ConUSB-Adapter-10



Y-ConUSB-PCB-11



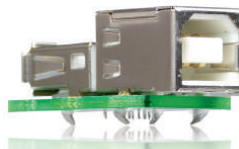
Y-ConUSB-PCB-12



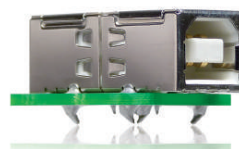
Y-ConUSB-Adapter-20



Y-ConUSB-PCB-21



Y-ConUSB-PCB-22



Y-ConUSB-PCB-32



Y-ConFlange-10



Y-ConAS-24



Y-ConU



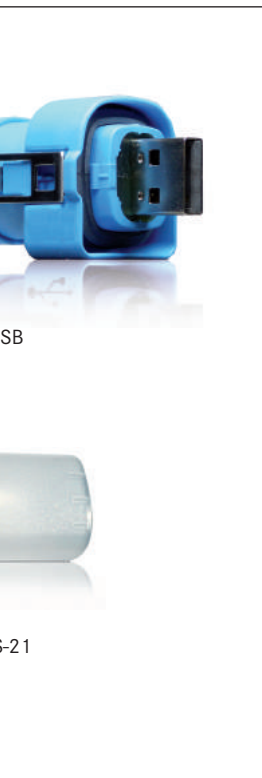
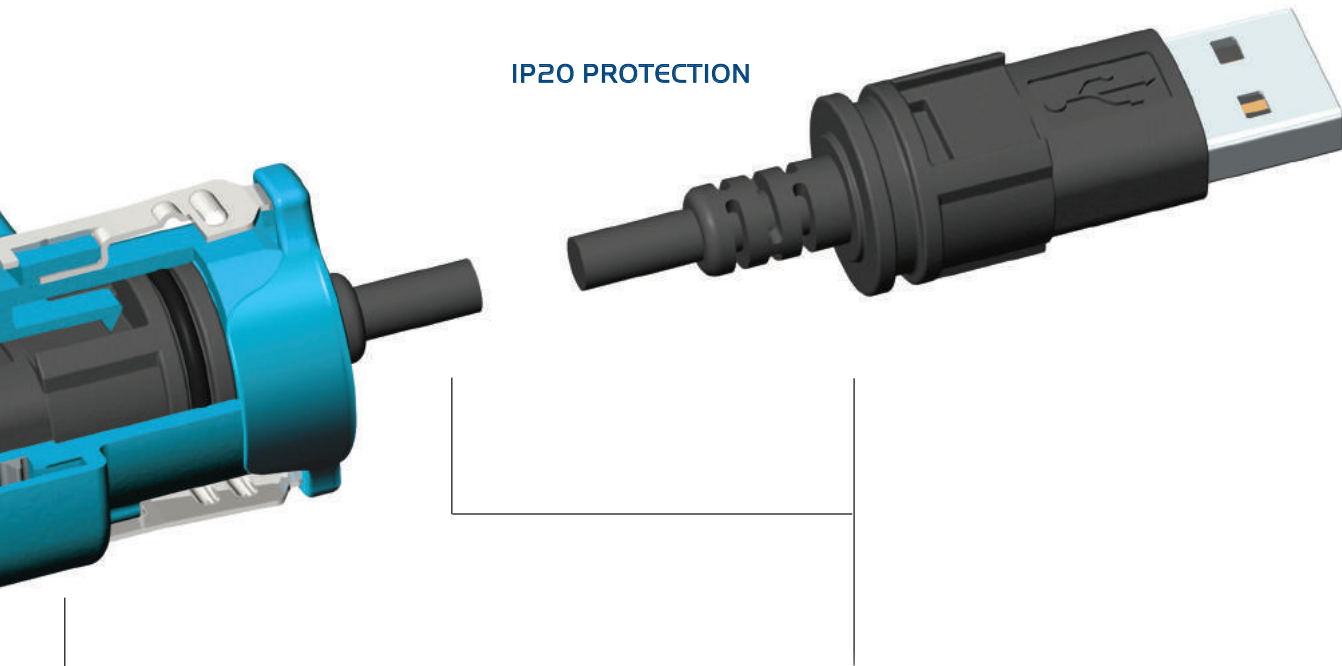
Y-ConAS

Y-ConUSB Steckverbindersystem mit Kunststoffgehäuse für raue Umgebungen mit der Schutzart IP20 oder IP67/68/69K.

Die Y-ConUSB Serie besteht durch folgende Eigenschaften:

- Spezieller IP20 Verriegelungsmechanismus für hohe Schock- und Vibrationssicherheit
- Optimierter Gehäuseflansch angepasst an die Dichtungseigenschaften des Y-Con Gehäuses
- Volle Rückwärtskompatibilität der Komponenten gewährleistet

IP20 PROTECTION



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YAMAICHI ELECTRONICS

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