

Description:

100 Mbit, Cat 5 (Cat 5e), digital signal cable.
Silicon and CFC free

100 Mbps, Cat 5 (Cat 5e), Kabel für digitale Signale.
Silikon- und FCKW frei

Part Number (Details)

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

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

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

for 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

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)			

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		

Part Number Example for RJ45 Cable Assemblies

Y-ConC	-	R40	6M	-	RJ	2S	-	2000	-	A
Series		RJ45 with 4+0 contacts	IP67 metal cover		RJ45	IP20 with strain relief		Length in mm		Wiring Plan

Part Number (Details)

Y-ConC	-	***	**	-	**	**	-	****	-	*
Series										
Interface side 1										
R40 = RJ45, 4+0 contacts										
R42 = RJ45, 4+2 contacts										
R60 = RJ45, 6+0 contacts										
R62 = RJ45, 6+2 contacts										
R80 = RJ45, 8+0 contacts										
R82 = RJ45, 8+2 contacts										
Protection side 1										
6P = IP67 plastic cover										
6M = IP67 metal cover										
2S = IP20 strain relief										
2L = IP20Lock strain relief										
2U = IP20Lock 90° molded										
2M = IP20 metal cover										
CU = customer specific										
Interface side 2										
RJ = RJ45										
CU = customer specific										
FE = free end (cut only)										
Protection side 2										
6P = IP67 plastic cover										
6M = IP metal cover										
2S = IP20 strain relief										
2L = IP20Lock strain relief										
2U = IP20Lock 90° moulded										
2M = IP20 metal cover										
CU = customer specific										
Length in mm										
Wiring Plan A = T568A 1:1, B = T568A crossover, C = T568B 1:1, D = T568B crossover, F = Custom										

Possible Cover Variations



IP6* plastic cover



IP6* metal cover



IP20 strain relief



Y-ConPlug-**
for all these
Y-Con covers



IP20Lock strain relief



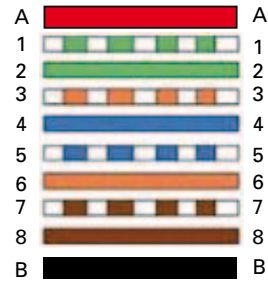
IP20Lock 90° molded



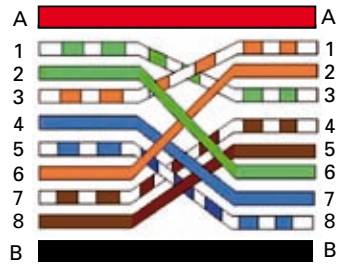
IP20 metal cover

Possible Wiring Diagrams

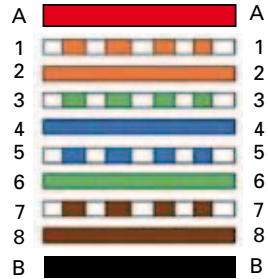
T568A 1 : 1



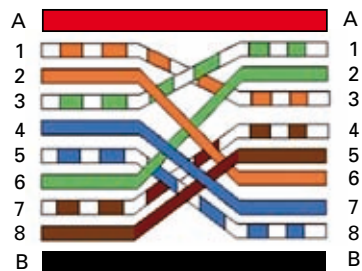
T568A Crossover



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