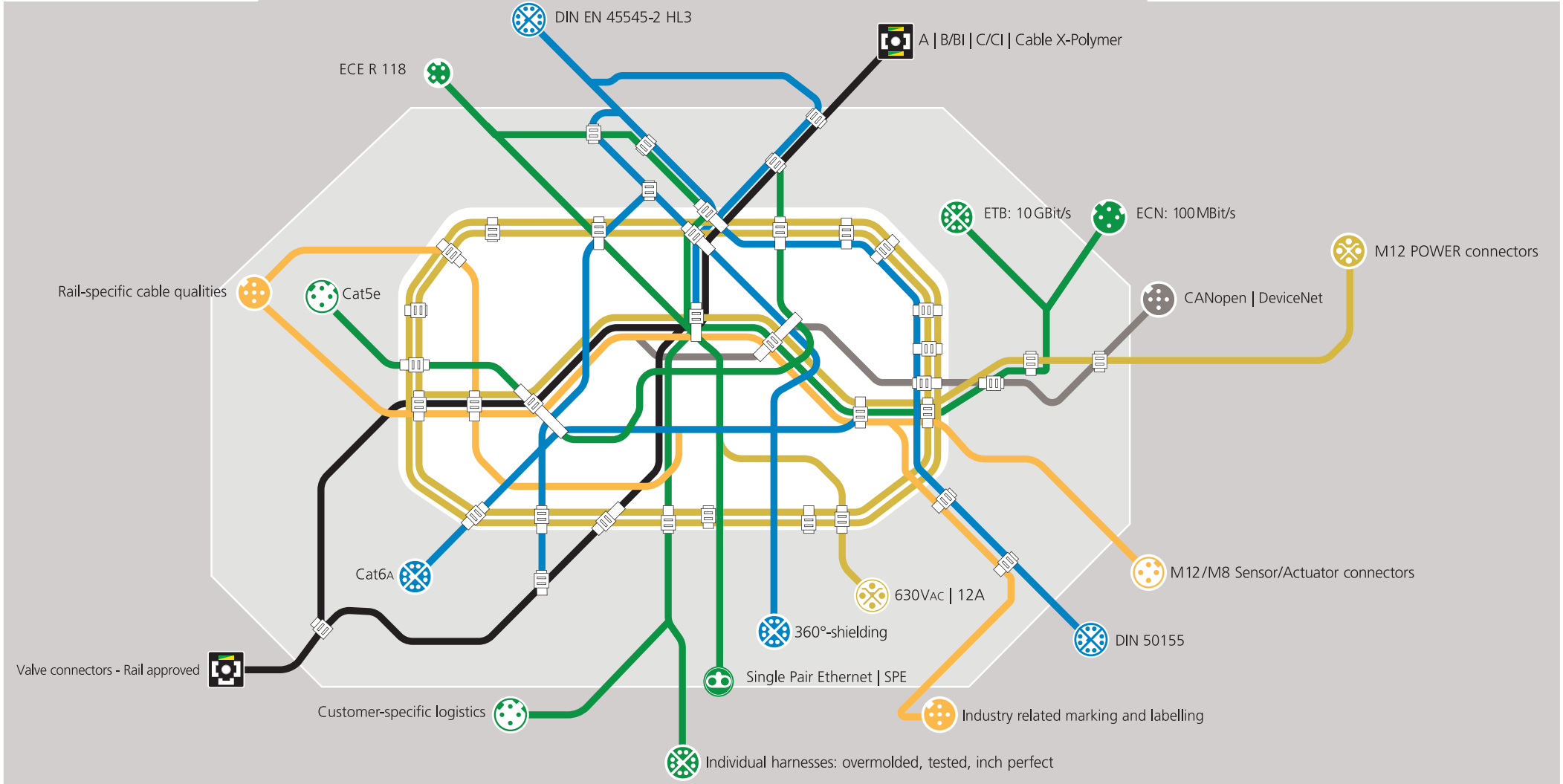
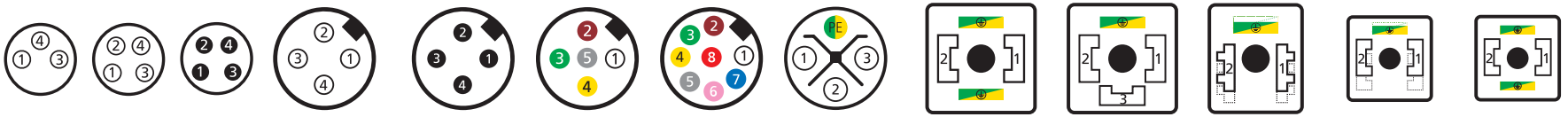
InnoTrans BERLIN 2024

ESCHA



HAVE A SAVE RIDE | Connectivity and Harnesses for Bus & Rail



SENSOR-/ACTUATOR	Round-connectors								Valve-connectors							
Housing style / Cable	M8			M12				M12 POWER	A				B/BI		C/CI	
	3 poles	4 poles	4 poles	4 poles A-coded	4 poles A-coded	5 poles A-coded	8 poles A-coded	3+PE S-coded	2+PE bridged		3+PE		2+PE		2+PE	2+PE bridged
RADOX® S3327 3x0.5mm² | BK	ƒm ⊙ƒm															
RADOX® S4500 4x0.5mm² | BK EN 50306-4		ƒm ⊙ƒm		ƒm ⊙ƒm												
RADOX® S4501 4x0.75mm² | BK EN 50306-4				ƒm ⊙ƒm												
RADOX® S4502 4x1.0mm² | BK EN 50306-4				ƒm ⊙ƒm												
SABIX® S5300 5x0.5mm² | GY						ƒm ⊙ƒm										
SABIX® S5550 8x0.25mm² | GY							ƒm ⊙ƒm									
CFSPECIAL S5555 4x0.34mm² | BK Drag-chain 1 Million			ƒm		ƒm											
RADOX® S4600 4G1.5mm² | BK EN 50306-4								ƒm 630VAC (UL) 12A								
X-Polymer S5600 3G0.75mm² | BK 4G0.75mm² | BK									30V LED | LED 230V without | LED		30V LED 230V without		30V LED 230V without | LED		230V without	30V LED | LED

DATA TRANSMISSION	100MBit /Cat5e		10GBit / Cat6A		CANopen DeviceNet
Cable \ Housing style	M12	RJ45	M12	RJ45	M12
	4 poles D-coded	4	8 poles X-coded	8	5 poles A-coded
Cat5e PUR S2171 1 x 4 x AWG22 | GN star quad	⊙ ƒ m ↑⌐	⊙ m ↑			
Cat5e RADOX® S4002 1 x 4 x AWG22 | BK star quad, reduced wire	⊙ ƒ m ↑⌐⇂⌐ ⊙ ƒ ⇂⇂⌐	⊙ m ↑			
Cat5e RADOX® S4002BU 1 x 4 x AWG22 | BU star quad, reduced wire	⊙ ƒ m ↑⌐⇂⌐ ⊙ ƒ ⇂⇂⌐	⊙ m ↑			
Cat5e RADOX® S4003 1 x 4 x AWG22 | BK star quad, robust	⊙ ƒ m ↑⌐⇂⌐ ⊙ ƒ ⇂⇂⌐				
Cat5e RADOX® S4004 1 x 4 x AWG22 | BU star quad, ECO	⊙ ƒ m ↑⌐⇂⌐ ⊙ ƒ ⇂⇂⌐				
Cat5e BETAtrans® S5002BU 1 x 4 x AWG22 | BU star quad, reduced wire	⊙ ƒ m ↑⌐⇂⌐ ⊙ ƒ ⇂⇂⌐	⊙ m ↑			
Cat7 RADOX® S4005 4 x 2 x AWG24 | BU robust			⊙ m ↑ ⊙ ƒ ⇂	⊙ m ↑	
Cat7 BETAtrans® S5006VT 4 x 2 x AWG26 | VT reduced wire			⊙ m ↑⌐⇂⌐ ⊙ ƒ ⇂		
FieldLink® DeviceNet S2800 1x(2 x AWG24)+1x(2 x AWG22) BK | ECE R 118 ⊙					ƒ m ↑⌐

WITHOUT CABLE		10GBit /Cat6A	100MBit /Cat5e	Sensor-/Actuator
	Housing style	M12	M12	M12
Contact	Mounting	8 poles X-coded	4 poles D-coded	4 poles A-coded
Receptacles	Print, Front wall	(M12) ⊙ ƒ m ↑		
	Print, Back wall	(M12) ⊙ ƒ m ↑⌐	(M12) ⊙ ƒ m ↑⌐ (M16) ⊙ ƒ m ↑	(M12) ƒ m ⌐
	Wire, Front wall			(M12) ƒ m ↑
	Wire, Back wall			(M12) ƒ m ↑ (M16) ƒ m ↑
Field-wireable	Insulation displacement contact (IDC)	⊙ m ↑	⊙ m ↑	
	Crimp contact necessary accessories*		⊙ m ↑	⊙ m ↑
Adapter	Adapter Panel feed through Back wall	⊙ ƒ ↑⌐_ RJ45 ⊙ ƒ ↑ _ ⊙ ƒ ↑	⊙ ƒ ↑⌐_ RJ45 ⊙ ƒ ↑ _ ⊙ ƒ ↑	
		⊙ ƒ ↑ _ ⊙ ƒ ↑		
	Wiring connector / Cat7	IDC Ø 5.0 – 9.7mm		

* necessary accessories: seals and connector pins for different diameters, crimping tool.
We also offer a comprehensive range of dust caps/plugs, fastening clips, spare nuts, color-coded accessories, installation tools such as stripping tools and torque wrenches.

Legend

- ƒ female
- m male
- ↑ straight
- ⌐ angled
- ⇂ Grip body with thread straight
- ⇂⌐ Grip body with thread angeld
- ⇂ Receptacles straight
- ⇂⌐ Receptacles angled
- ⊙ shielded
- (M12) M12 fastening thread
- (M16) M16 fastening thread
- without without LED & circuit
- circuit: suppressor diode
- circuit: Z-Diode
- circuit: varistor

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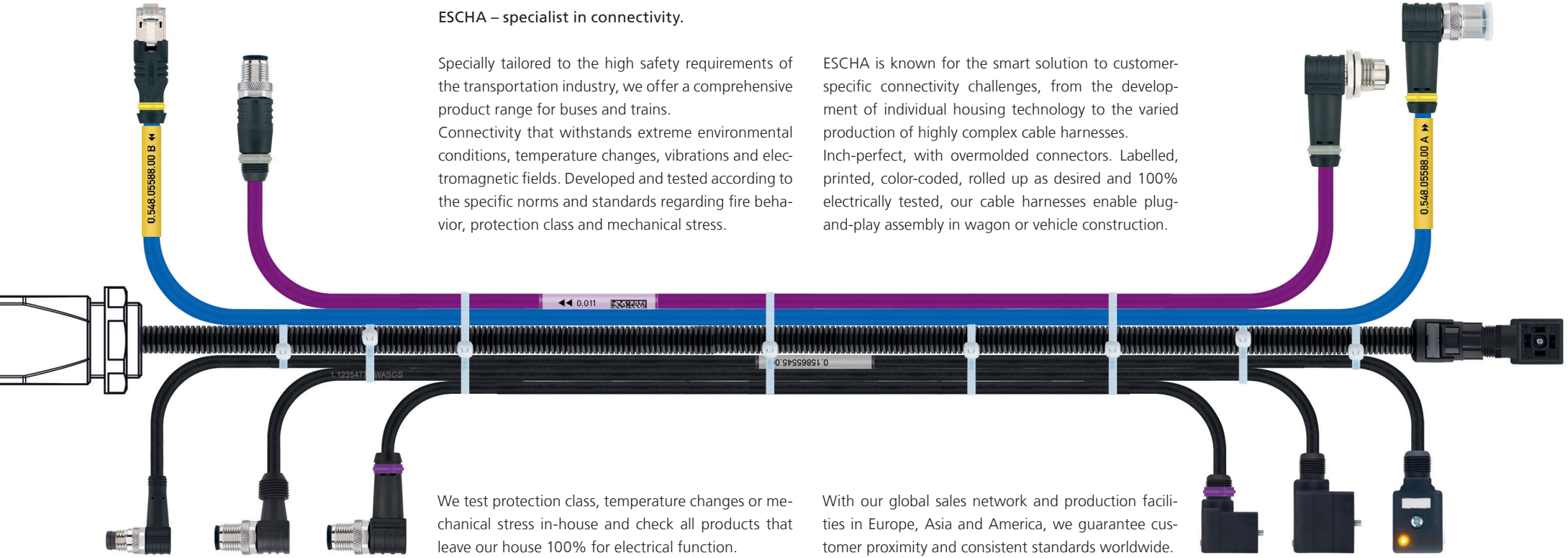

ESCHA – specialist in connectivity.

Specially tailored to the high safety requirements of the transportation industry, we offer a comprehensive product range for buses and trains.
Connectivity that withstands extreme environmental conditions, temperature changes, vibrations and electromagnetic fields. Developed and tested according to the specific norms and standards regarding fire behavior, protection class and mechanical stress.

ESCHA is known for the smart solution to customer-specific connectivity challenges, from the development of individual housing technology to the varied production of highly complex cable harnesses.
Inch-perfect, with overmolded connectors. Labelled, printed, color-coded, rolled up as desired and 100% electrically tested, our cable harnesses enable plug-and-play assembly in wagon or vehicle construction.

We test protection class, temperature changes or mechanical stress in-house and check all products that leave our house 100% for electrical function.

With our global sales network and production facilities in Europe, Asia and America, we guarantee customer proximity and consistent standards worldwide.