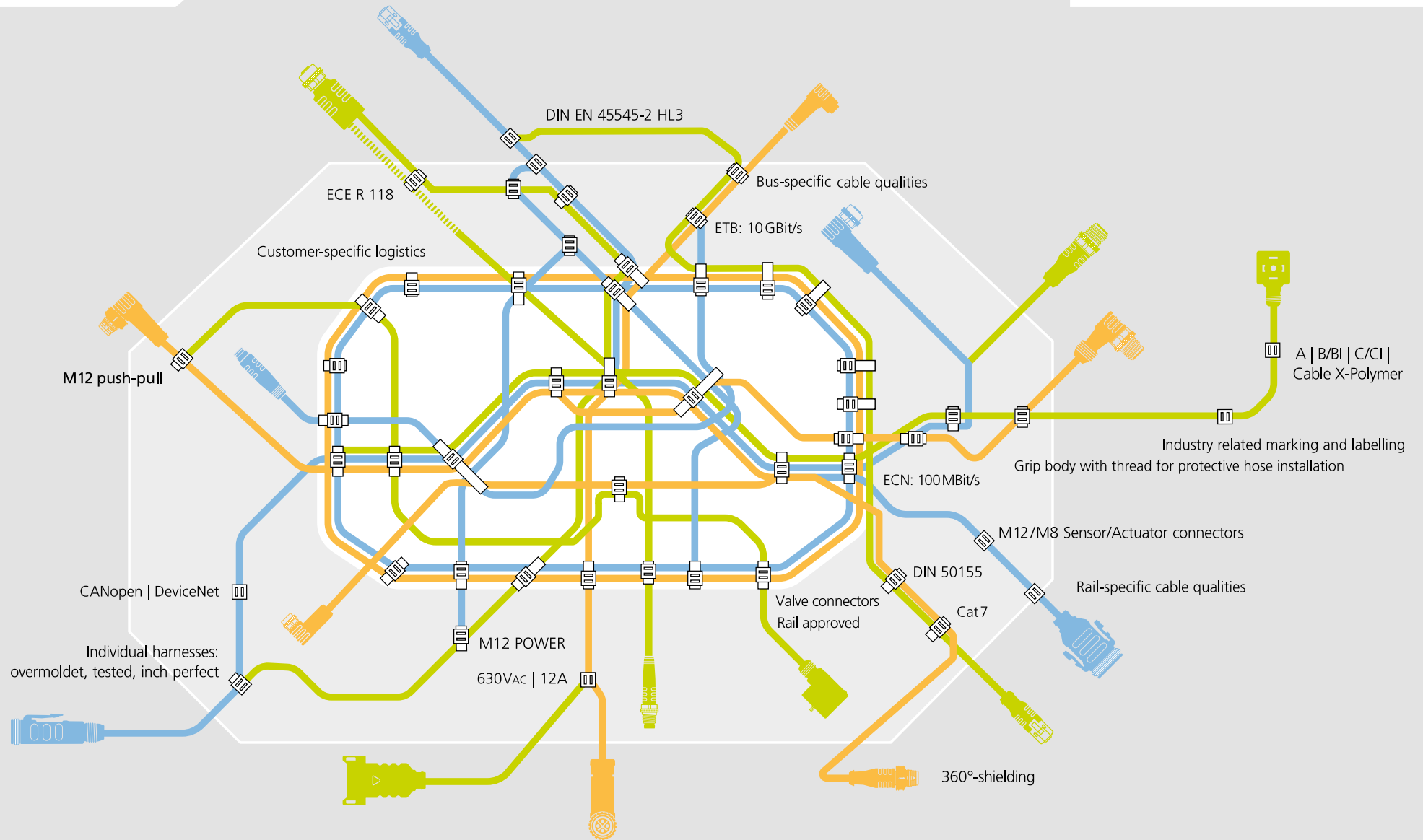
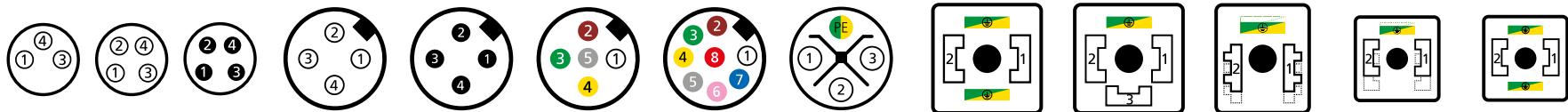
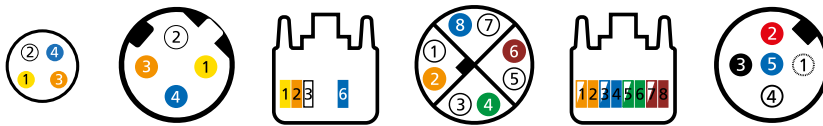




HAVE A SAVE RIDE | Connectivity and Harnesses for Bus & Rail



SENSOR-/ ACTUATOR	Round-connectors						Valve-connectors							
Housing style Cable	M8		M12			M12 POWER	A		B/BI		C/CI			
	3 poles	4 poles	4 poles A-coded	5 poles A-coded	8 poles A-coded	3+PE S	2+PE bridged		3+PE	2+PE		2+PE	2+PE bridged	
RADOX® S3327 3x0.5mm² BK														
RADOX® S4500 4x0.5mm² BK EN 50306-4			 push-pull push-pull											
RADOX® S4501 4x0.75mm² BK EN 50306-4			 push-pull push-pull											
RADOX® S4502 4x1.0mm² BK EN 50306-4			 push-pull push-pull											
SABIX® S5300 5x0.5mm² GY				 push-pull push-pull										
SABIX® S5550 8x0.25mm² GY					 push-pull push-pull									
RADOX® S4600 4x1.5mm² BK EN 50306-4						 630V _{AC} (UL) 12A								
X-Polymer S5600 3x 0.75mm² BK							30V		30V	30V			30V	
							LED	LED	LED	LED			LED	LED
	4x 0.75mm² BK							230V		230V	230V		230V	
							without	LED	without	without	LED	without		



DATA TRANSMISSION	100MBit / Cat5e			10GBit / Cat6A		CANopen DeviceNet
Housing style	M8	M12	RJ45	M12	RJ45	M12
Cable	4	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	⊙ <i>m</i> ↑	⊙ <i>f m</i> ↑ ↗	⊙ <i>m</i> ↑			
Cat5e RADOX® S4002 1 x 4 x AWG22 BK star quad, reduced wire		⊙ <i>f m</i> ↑ ↗ ↘ ⊙ <i>m</i> ↑ ↗ ↘ push-pull ⊙ <i>f</i> ↗ ↘	⊙ <i>m</i> ↑			
Cat5e RADOX® S4002BU 1 x 4 x AWG22 BU star quad, reduced wire		⊙ <i>f m</i> ↑ ↗ ↘ ⊙ <i>m</i> ↑ ↗ ↘ push-pull ⊙ <i>f</i> ↗ ↘	⊙ <i>m</i> ↑			
Cat5e RADOX® S4003 1 x 4 x AWG22 BK star quad, robust		⊙ <i>f m</i> ↑ ↗ ↘ ⊙ <i>m</i> ↑ ↗ ↘ push-pull ⊙ <i>f</i> ↗ ↘				
Cat5e RADOX® S4004 1 x 4 x AWG22 BU star quad, ECO		⊙ <i>f m</i> ↑ ↗ ↘ ⊙ <i>m</i> ↑ ↗ ↘ push-pull ⊙ <i>f</i> ↗ ↘				
Cat5e BETAtans® S5002BU 1 x 4 x AWG22 BU star quad, reduced wire		⊙ <i>f m</i> ↑ ↗ ↘ ⊙ <i>m</i> ↑ ↗ ↘ push-pull ⊙ <i>f</i> ↗ ↘	⊙ <i>m</i> ↑			
Cat7 RADOX® S4005 4 x 2 x AWG24 BU robust				⊙ <i>m</i> ↑ ⊙ <i>m</i> ↑ push-pull ⊙ <i>f</i> ↗	⊙ <i>m</i> ↑	
Cat7 BETAtans® S5006VT 4 x 2 x AWG26 VT reduced wire				⊙ <i>m</i> ↑ ↗ ↘ ⊙ <i>m</i> ↑ ↗ ↘ push-pull ⊙ <i>f</i> ↗	⊙ <i>m</i> ↑	
FieldLink® DeviceNet s2800 1x(2 x AWG24)+1x(2 x AWG22) BK ECE R 118 ⊙						<i>f m</i> ↑ ↗

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) ⊙ <i>f m</i> ↑		
	Back wall	⊙ (M12) ⊙ <i>f m</i> ↑ ↗	⊙ (M12) ⊙ <i>f m</i> ↑ ↗ ⊙ (M16) ⊙ <i>f m</i> ↑	⊙ (M12) <i>f m</i> ↑ ↗
	Wire			
	Front wall			⊙ (M12) <i>f m</i> ↑
Field-wireable	Back wall			⊙ (M12) <i>f m</i> ↑ ⊙ (M16) <i>f m</i> ↑
	Insulation displacement contact (IDC)	⊙ <i>f m</i> ↑	⊙ <i>m</i> ↑	
	Crimp contact necessary accessories*		⊙ <i>m</i> ↑	⊙ <i>m</i> ↑
Adapter	Adapter Panel feed through	⊙ <i>f</i> ↑ ↗ _ RJ45 ⊙ <i>f</i> ↑ _ ⊙ <i>f</i> ↑	⊙ <i>f</i> ↑ ↗ _ RJ45 ⊙ <i>f</i> ↑ _ ⊙ <i>f</i> ↑	
	Back wall	⊙ <i>f</i> ↑ - ⊙ <i>f</i> ↑		
	Wiring connector / Cat7	IDC Ø 5.0 – 9.7mm		

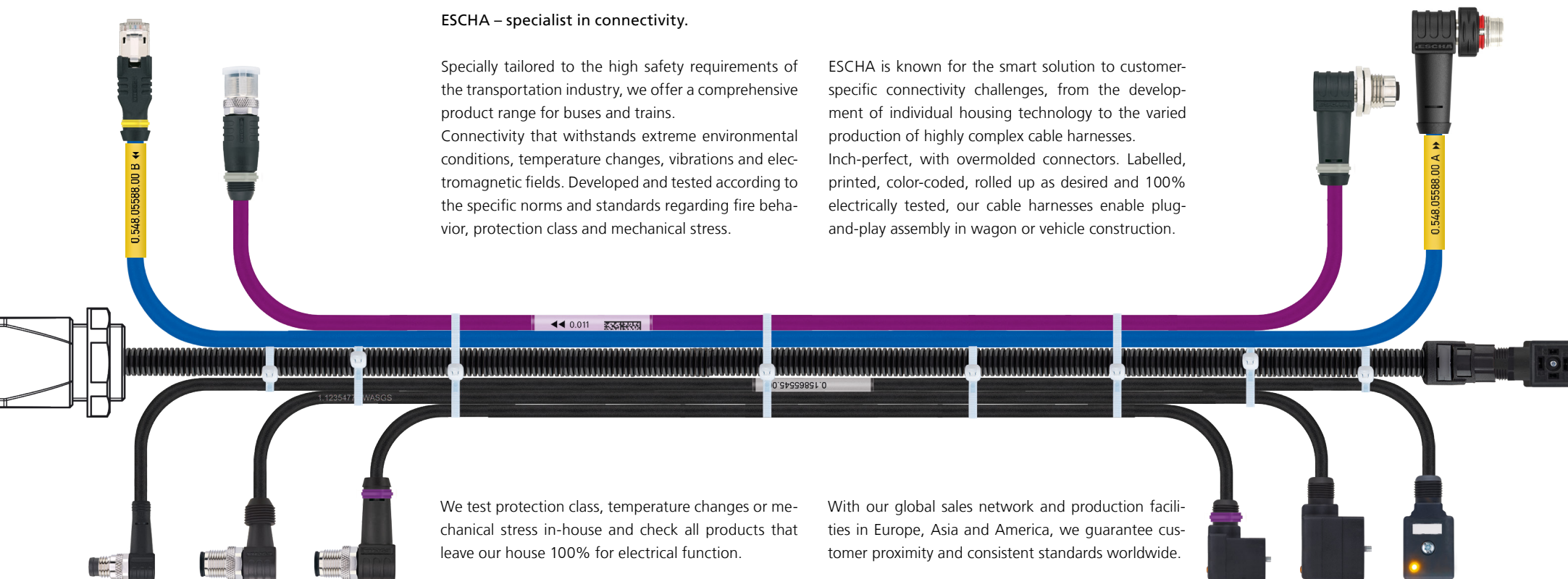
* necessary accessories: seals and connector pins for different diameters, crimping tool.
We also offer a comprehensive range of dust caps/plugs, fastening clips, spare nuts,
color-coded accessories, installation tools such as stripping tools and torque wrenches.

Legend	<i>f</i> female ↑ straight ↗ angled	↗ Grip body with thread straight ↘ Grip body with thread angled ⊙ Receptacles straight ⊙ Receptacles angled	⊙ shielded ⊙ (M12) M12 fastening thread ⊙ (M16) M16 fastening thread	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.

