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preLink® System				Wire map white/ green green white/ brown brown ① ② ⑦ ⑧ TIA/EIA 568 A ④ ⑤ ⑥ ③ blue white/ blue orange white/ orange ① ② ⑦ ⑧ TIA/EIA 568 B ④ ⑤ ⑥ ③ white/ orange orange white/ brown brown ① ② ⑦ ⑧ TIA/EIA 568 B ④ ⑤ ⑥ ③ blue white/ blue green white/ green ① ② ⑦ ⑧ TIA/EIA 568 B ④ ⑤ ⑥ ③ yellow orange x x ① ② ⑦ ⑧ INDUSTRIAL ④ ⑤ ⑥ ③ x x blue white																																																																																																																						
				preLink® types <table><tr><th>p/n</th><th>type</th><th>cable diameter</th><th>material</th><th>degree protection</th></tr><tr><td>20 82 500 0001</td><td>preLink® RJ45 Keystone jack w/o preLink block</td><td>5 ... 9 mm</td><td>zinc die-cast</td><td>IP20</td></tr><tr><td>20 82 500 0002</td><td>preLink® RJ45 Keystone jack angled w/o preLink block</td><td>5 ... 9 mm</td><td>zinc die-cast</td><td>IP20</td></tr><tr><td>20 82 501 0001</td><td>preLink® RJ45 Keystone jack AWG 24-22</td><td>5 ... 9 mm</td><td>zinc die-cast</td><td>IP20</td></tr><tr><td>20 82 001 0001</td><td>preLink® RJ45 HIFF jack AWG 24-22</td><td>5 ... 9 mm</td><td>zinc die-cast</td><td>IP20</td></tr><tr><td>20 82 001 0002</td><td>preLink® RJ45 HIFF jack AWG 27-26</td><td>5 ... 9 mm</td><td>zinc die-cast</td><td>IP20</td></tr><tr><td>20 82 000 0002</td><td>preLink® RJ45 HIFF jack w/o preLink block</td><td>5 ... 9 mm</td><td>zinc die-cast</td><td>IP20</td></tr><tr><td>20 82 101 0001</td><td>preLink® extender</td><td>5 ... 9 mm</td><td>zinc die-cast</td><td>IP20</td></tr><tr><td>20 82 101 0010</td><td>preLink® RJ45 plug w/o preLink block</td><td>5 ... 9 mm</td><td>zinc die-cast</td><td>IP20</td></tr><tr><td>20 82 002 0001</td><td>Han® 3 A preLink® RJ45 plug insert</td><td>5 ... 9 mm</td><td>plastic</td><td>IP 65/67</td></tr><tr><td>20 82 204 0001</td><td>Han® PushPull RJ45 plug plastic</td><td>6.3 ... 8.8 mm</td><td>plastic</td><td>IP 65/67</td></tr><tr><td>20 82 104 0001</td><td>Han® PushPull RJ45 plug metal</td><td>5 ... 9.5 mm</td><td>zinc die-cast</td><td>IP 65/67</td></tr><tr><td>20 82 104 0045</td><td>Han® PushPull RJ45 plug metal 45°</td><td>5 ... 9.5 mm</td><td>zinc die-cast</td><td>IP 65/67</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td>20 82 005 0001</td><td>preLink® M12 connector D-coding, 4 poles</td><td>5 ... 9.5 mm</td><td>zinc die-cast</td><td>IP 65/67</td></tr><tr><td>20 82 005 1214</td><td>preLink® connector insert, male, M12 D-coding, 4 poles</td><td></td><td></td><td></td></tr><tr><td>20 82 005 0002</td><td>preLink® M12 connector X-coding, 8 poles</td><td>5 ... 9.5 mm</td><td>zinc die-cast</td><td>IP 65/67</td></tr><tr><td>20 82 006 1218</td><td>preLink® connector insert, male, M12 X-coding, 8 poles</td><td></td><td></td><td></td></tr><tr><td>20 82 000 1210</td><td>preLink® M12 housing, empty</td><td>5 ... 9.5 mm</td><td>zinc die-cast</td><td>IP 65/67</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td>20 82 005 2001</td><td>preLink® M12 cable jack D-coding, 4 poles</td><td>5 ... 9.5 mm</td><td>zinc die-cast</td><td>IP 65/67</td></tr><tr><td>20 82 006 2001</td><td>preLink® M12 cable jack X-coding, 8 poles</td><td>5 ... 9.5 mm</td><td>zinc die-cast</td><td>IP 65/67</td></tr><tr><td>20 82 007 1100</td><td>preLink® PCB jack, THR, 8 poles</td><td>5 ... 9.5 mm</td><td>plastic/metal shielding</td><td>IP20</td></tr></table>				p/n	type	cable diameter	material	degree protection	20 82 500 0001	preLink® RJ45 Keystone jack w/o preLink block	5 ... 9 mm	zinc die-cast	IP20	20 82 500 0002	preLink® RJ45 Keystone jack angled w/o preLink block	5 ... 9 mm	zinc die-cast	IP20	20 82 501 0001	preLink® RJ45 Keystone jack AWG 24-22	5 ... 9 mm	zinc die-cast	IP20	20 82 001 0001	preLink® RJ45 HIFF jack AWG 24-22	5 ... 9 mm	zinc die-cast	IP20	20 82 001 0002	preLink® RJ45 HIFF jack AWG 27-26	5 ... 9 mm	zinc die-cast	IP20	20 82 000 0002	preLink® RJ45 HIFF jack w/o preLink block	5 ... 9 mm	zinc die-cast	IP20	20 82 101 0001	preLink® extender	5 ... 9 mm	zinc die-cast	IP20	20 82 101 0010	preLink® RJ45 plug w/o preLink block	5 ... 9 mm	zinc die-cast	IP20	20 82 002 0001	Han® 3 A preLink® RJ45 plug insert	5 ... 9 mm	plastic	IP 65/67	20 82 204 0001	Han® PushPull RJ45 plug plastic	6.3 ... 8.8 mm	plastic	IP 65/67	20 82 104 0001	Han® PushPull RJ45 plug metal	5 ... 9.5 mm	zinc die-cast	IP 65/67	20 82 104 0045	Han® PushPull RJ45 plug metal 45°	5 ... 9.5 mm	zinc die-cast	IP 65/67						20 82 005 0001	preLink® M12 connector D-coding, 4 poles	5 ... 9.5 mm	zinc die-cast	IP 65/67	20 82 005 1214	preLink® connector insert, male, M12 D-coding, 4 poles				20 82 005 0002	preLink® M12 connector X-coding, 8 poles	5 ... 9.5 mm	zinc die-cast	IP 65/67	20 82 006 1218	preLink® connector insert, male, M12 X-coding, 8 poles				20 82 000 1210	preLink® M12 housing, empty	5 ... 9.5 mm	zinc die-cast	IP 65/67						20 82 005 2001	preLink® M12 cable jack D-coding, 4 poles	5 ... 9.5 mm	zinc die-cast	IP 65/67	20 82 006 2001	preLink® M12 cable jack X-coding, 8 poles	5 ... 9.5 mm	zinc die-cast	IP 65/67	20 82 007 1100	preLink® PCB jack, THR, 8 poles	5 ... 9.5 mm	plastic/metal shielding	IP20
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1	2	3	4	5	6	7	8																																																																																																																			

white/ orange

orange

white/ brown

brown

①

②

⑦

⑧

TIA/EIA 568 B

④

⑤

⑥

③

blue

white/ blue

orange

white/ green

①

②

⑦

⑧

INDUSTRIAL

④

⑤

⑥

③

x

x

x

x

blue

blue

blue

white

1	2	3	4	5	6	7	8																																																													
A	 preLink® System 							A																																																												
B	Environment specification																																																																			
	Storage temperature range -40°C to +85°C (95% RH max.)																																																																			
	Operating temperature range -40°C to +85°C (95% RH max.)																																																																			
	Rapid change of temperature (IEC 60512-11-4) 5 cycles between -40°C and 85°C with 30 minutes dwell at temp. extremes and 1 minute transition between temperatures																																																																			
	Dry heat (IEC 60512-11-9) Temperature 85°C, duration 500 h																																																																			
	Damp heat cyclic (IEC 60512-11-12) 5 cycles at test temperature +55°C; Variant 2																																																																			
	Cyclic damp heat (IEC 60068-2-38) 25°C to 65°C; cold sub-cycle - 10°C		humidity 93 % RH		21 cycles, 1 cycle/24 h																																																															
	Cold (IEC 60512-11-10) -40°C duration 2 h																																																																			
	Flow mixed gas test (IEC 60512-11-7) Duration 4 d, Method 4 (mated and unmated)																																																																			
	C	Vibration Sine (IEC 60512-6-4) 10 - 500 Hz; 0.35 mm; 50 m/s2		10 cycles / 2 h / 3 axis		No contact disturbances ≥ 1 µs																																																														
Mechanical shock (IEC 60512-test 6c) Half sine shock 300 m/s2, duration 11 ms		3 shocks / both directions / 3 axis - totally 18 shocks		No contact disturbances ≥ 1 µs																																																																
Mechanical shock (DIN EN 61373 Class 1 cat b) Half sine shock 5 g, duration 30 ms																																																																				
Additional test to fulfill DIN EN 50155 for railway equipment		5 shocks / both directions / 3 axis - totally 30 shocks No contact disturbances ≥ 1 µs																																																																		
Random vibration (DIN EN 61373 Class 1 cat b) 5 - 150 Hz / aeff = 5,72 m/s2 / ASD-Level: 0.964 (m/s2)2/Hz		Duration 5 h No contact disturbances ≥ 1 µs																																																																		
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