

1	2	3	4	5	6	7	8																																																																																																																			
A	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																																																																																																																						
B				preLink® types																																																																																																																						
C				<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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E	General information Mating Face RJ45 acc. to IEC 60603-7, M12 D-coded acc. to IEC 61076-2-101 or M12 X-coded acc. to IEC 61076-2-109 Number of contacts 8 Transmission performance RJ45/ M12 X-coded M12 D-coded acc. to ISO 11801 category 6 / class E₁ up to 500 MHz acc. to ISO 11801 category 5 / class D up to 100 MHz Transmission rate 10/100 Mbit/s 1/2,5/5/10 Gbit/s 10/100Mbits Shielding Fully shielded, 360° shielding contact Termination technology preLink® IDC termination acc. to IEC 60352-4 Power over Ethernet usable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at) Cable diameter see table preLink® types Conductor cross section (solid and stranded) wire gauge wire diameter 20 82 000 0001 * AWG 24 - 22 (contact block yellow) 1,3 - 1,6mm 20 82 000 0003 * AWG 27 - 26 (contact block white) 0,8 - 1,1mm 20 82 000 0005 / ...0005XL * AWG 24 - 22 (contact block black / PROFINET) 1,3 - 1,6mm Current 1,18A at 20°C (see derating diagram) Operating voltage max. 57V DC Contact resistance ≤ 20mΩ Insulating resistance between contacts ≥ 500MΩ Electric strength contact - contact RJ45/ M12 D-coded 1,0kV M12 X-coded 0,5kV Electric strength contact - shielding RJ45/ M12 D-coded 1,5kV M12 X-coded 0,5kV Degree of protection see table preLink® types Temperature range -40°C ... +70°C Mating cycles RJ45 termination M12 termination preLink termination min. 750 min. 100 min. 10 UL file pending RoHS - compliant Yes * For high flexible wires (for example AWG 22/19) or special wire isolation materials an evaluation test for the IDC connection is recommended.																																																																																																																									
F	Material Housing material see table preLink® types Contact plating Plating contact zone 1,27µm (50µinch) Au over Ni Derating diagram acc. to IEC 60512-5 (current carrying capacity) The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature. Control and test procedures according to DIN IEC 60512-5 A Electrical Load [A] Temperature [°C]			All rights reserved Department EL PD HARTING Electronics GmbH D-32339 Espelkamp All Dimensions in mm Original Size DIN A3 Scale 1:1 Free size tol. Ref. Sub. All rights reserved Department EL PD HARTING Electronics GmbH D-32339 Espelkamp Created by BALSAN Inspected by PRIESTER Standardisation HOFFMANN Date 2019-03-14 State Final Release Doc-Key / ECM-Nr. 100571828/UGD/001/F 500000149033 Rev. F Page 1/1 Title preLink System Type DS Number 20820000000																																																																																																																						
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/ orange

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

①

②

⑦

⑧

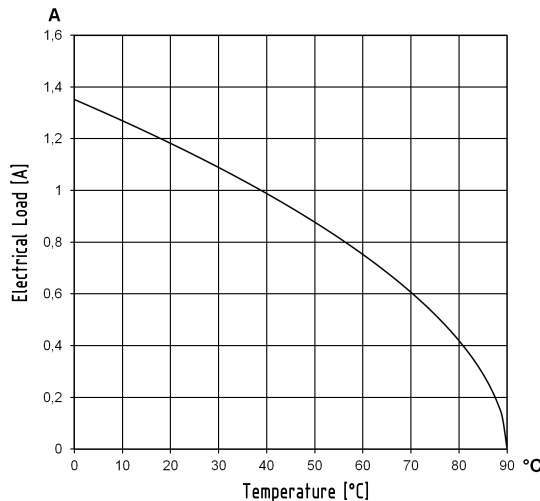
INDUSTRIAL

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