

CONNECTION TECHNOLOGY SELECTION GUIDE

ABB S800

interfast 2 Swing arm pre-wired by ENTRELEC

interfast 3 PLC used has a connector on the card

HDI High density range



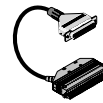
STI standard range



Sub D range Shielded cable



HDI range cable



STI range cable



Multipurpose cable

Multipurpose cable

See chapter "Connection cables"

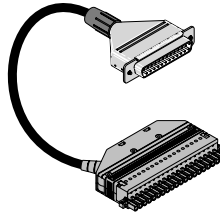
References					See page	See page
Boards 16 I DIGITAL						
DI 801						Page 13
DI 810					Page 12	
DI 811					Page 12	
DI 814					Page 12	
DI 830					Page 12	
DI 831					Page 12	
Boards 16 O DIGITAL						
DO 801						Page 13
DO 810					Page 12	
DO 814					Page 12	
Boards 8 I DIGITAL						
DI 802						Page 13
DI 803						Page 13
DI 820						Page 13
DI 821						Page 13
DI 885					Page 12	
Boards 8 O DIGITAL						
DO 802						Page 13
DO 815						Page 13
DO 820						Page 13
DO 821						Page 13
Boards 8 I ANA						
AI 801						
AI 810					Page 12	
AI 830					Page 12	
AI 835					Page 12	
Boards 8 O ANA						
AO 801						Page 13
AO 810						Page 13
Boards 4 I ANA						
AI 820					Page 12	
Boards 4 O ANA						
AO 820					Page 12	
Pulse counter boards						
DP 820						

interfast 3

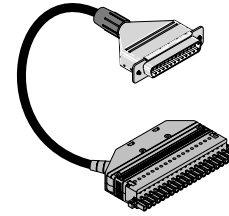


ABB S800 I/O board with built-in connector. Cables with connector to omniconnect

Boards 16 I DIGITAL Boards 8 I DIGITAL



Boards 16 O DIGITAL Boards Pulse Counter



Note : To be used with TU 812 socket

Note : To be used with TU 812 socket

Type of board	Connector interface	Decoupling interface	Type of board	Connector interface	Decoupling interface
Boards 16 I DIGITAL			Boards 16 O DIGITAL		
DI 810	2 3	16 opto P	DO 810	2 3	16 relays N /16 opto N
DI 811	2		DO 814	2	16 relays P /16 opto P
DI 814	2	16 opto N/P	Boards Pulse Counter		
DI 830	2 3	16 opto P	DP 820	2	
DI 831	2				
Boards 8 I DIGITAL					
DI 885	2				

■ Wire markers optional: Consult us

■ Accessories: see section on ACCESSORIES

Recommended cable lengths in boldface type
* Cables UL available only for USA, CANADA, MEXICO

Length	Type of cable	Reference with IEC cables UL	Reference with cables *	Type of cable	Reference with IEC cables UL	Reference with cables *
1 m	LA100/SUBD25F/OMN20/648	0036 898.14	0037 898.15	LA100/SUBD25F/OMN20/648	0036 898.14	0037 898.15
1,5 m	LA150/SUBD25F/OMN20/648	0036 899.15	0037 899.16	LA150/SUBD25F/OMN20/648	0036 899.15	0037 899.16
2 m	LA200/SUBD25F/OMN20/648	0036 900.22	0037 900.23	LA200/SUBD25F/OMN20/648	0036 900.22	0037 900.23
2,5 m						
3 m	LA300/SUBD25F/OMN20/648	0036 902.10	0037 902.11	LA300/SUBD25F/OMN20/648	0036 902.10	0037 902.11
4 m						
5 m	LA500/SUBD25F/OMN20/648	0036 904.12	0037 904.13	LA500/SUBD25F/OMN20/648	0036 904.12	0037 904.13

Characteristics

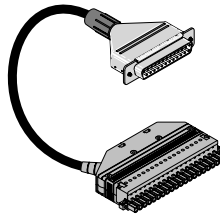
Type of interface connector	1 omniconnect 20 points	1 omniconnect 20 points
Wire size	0,22mm ² - 24 AWG	0,22mm ² - 24 AWG
Resistance/capacity cable	80 Ω/KM - 120 nF/KM	80 Ω/KM - 120 nF/KM
PLC connector interface	1 Sub D 25 points female	1 Sub D 25 points female

interfast 3

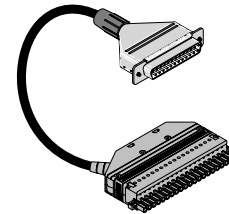


ABB S800 I/O board with built-in connector. Cables with connector to omniconnect

Boards 8 I ANA Boards 8 O ANA



Boards 4 I ANA Boards 4 O ANA



Note : To be used with TU 812 socket

Note : To be used with TU 812 socket

Type of board	Connector interface	Decoupling interface	Type of board	Connector interface	Decoupling interface
Boards 8 I ANA			Boards 4 I ANA		
AI 810	2		AI 820	2	
AI 830	2		Boards 4 O ANA		
AI 835	2		AO 820	2	
Boards 8 O ANA					
AO 810	2				

■ Wire markers optional: Consult us

■ Accessories: see section on ACCESSORIES

Recommended cable lengths in boldface type
* Cables UL available only for USA, CANADA, MEXICO

Length	Type of cable	Reference with IEC cables UL	Reference with cables *	Type of cable	Reference with IEC cables UL	Reference with cables *
1 m	LA100/SUBD25F/OMN20/648	0036 898.14	0037 898.15	LA100/SUBD25F/OMN20/648	0036 898.14	0037 898.15
1,5 m	LA150/SUBD25F/OMN20/648	0036 899.15	0037 899.16	LA150/SUBD25F/OMN20/648	0036 899.15	0037 899.16
2 m	LA200/SUBD25F/OMN20/648	0036 900.22	0037 900.23	LA200/SUBD25F/OMN20/648	0036 900.22	0037 900.23
2,5 m						
3 m	LA300/SUBD25F/OMN20/648	0036 902.10	0037 902.11	LA300/SUBD25F/OMN20/648	0036 902.10	0037 902.11
4 m						
5 m	LA500/SUBD25F/OMN20/648	0036 904.12	0037 904.13	LA500/SUBD25F/OMN20/648	0036 904.12	0037 904.13

Characteristics

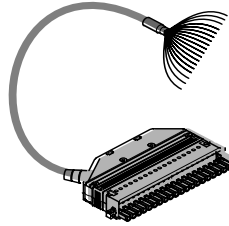
Type of interface connector	1 omniconnect 20 points	1 omniconnect 20 points
Wire size	0,22mm ² - 24 AWG	0,22mm ² - 24 AWG
Resistance/capacity cable	80 Ω/KM - 120 nF/KM	80 Ω/KM - 120 nF/KM
PLC connector interface	1 Sub D 25 points female	1 Sub D 25 points female

interfast 3

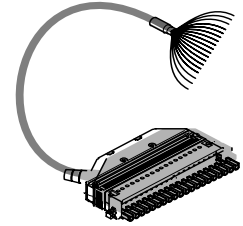


ABB S800 I/O board with built-in connector. Multipurpose cable with connector to omniconnect

Boards 16 I DIGITAL Boards 16 O DIGITAL



Boards 8 I DIGITAL



Color code

Pin #	Wire Color	Pin #	Wire Color
1	Black	11	Red/White
1	White	11	Green/White
2	Red	12	Blue/White
3	Green	13	Black/Red
4	Orange	14	White/Red
5	Blue	15	Orange/Red
6	White/Black	16	Blue/Red
7	Red/Black	17	Red/Green
8	Green/Black	18	Orange/Green
9	Orange/Black	19	Black/White/Red
10	Blue/Black	20	White/Black/Red
10	Black/White	20	Red/Black/White

Type of board	Connector interface	Decoupling interface	Type of board	Connector interface	Decoupling interface
Boards 16 I DIGITAL			Boards 8 I DIGITAL		
DI 801	2 3	16 opto P	DI 802	2	
Boards 16 O DIGITAL			DI 803	2	
DO 801	2 3	16 relays N / 16 opto	DI 820	2	
N			DI 821	2	

■ Wire markers optional: Consult us

■ Accessories: see section on ACCESSORIES

Recommended cable lengths in boldface type
* Cables UL available only for USA, CANADA, MEXICO

Length	Type of cable	Reference with IEC cables UL	Reference with cables *	Type of cable	Reference with IEC cables UL	Reference with cables *
1 m	LAF100/UNI/OMN20/666	0038 036.10	XUSI02586	LAF100/UNI/OMN20/666	0038 036.10	XUSI02586
1,5 m	LAF150/UNI/OMN20/666	0038 037.11	XUSI02587	LAF150/UNI/OMN20/666	0038 037.11	XUSI02587
2 m	LAF200/UNI/OMN20/666	0038 038.22	XUSI02588	LAF200/UNI/OMN20/666	0038 038.22	XUSI02588
2,5 m	LA250/OMN20/UL	—	XUSI02589	LA250/OMN20/UL	—	XUSI02589
3 m	LAF300/UNI/OMN20/666	0038 039.23	XUSI02590	LAF300/UNI/OMN20/666	0038 039.23	XUSI02590
4 m	LA400/OMN20/UL	—	XUSI02591	LA400/OMN20/UL	—	XUSI02591
5 m	LAF500/UNI/OMN20/666	0038 040.00	XUSI02592	LAF500/UNI/OMN20/666	0038 040.00	XUSI02592

Characteristics

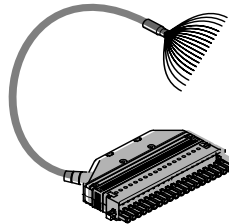
Type of connector	1 Omniconnect 20 points	1 Omniconnect 20 points
Wire size	0,22mm ² - 22 AWG	0,22mm ² - 22 AWG
Resistance/capacity cable	80 Ω/KM - 120 nF/KM	80 Ω/KM - 120 nF/KM
Max. current/Max. voltage	2 A / 250 V	2 A / 250 V

interfast 3



ABB S800 I/O board with built-in connector. Multipurpose cable with connector to omniconnect

Boards 8 O DIGITAL



Boards 8 I ANA Boards 8 O ANA

Color code

Pin #	Wire Color	Pin #	Wire Color
1	Black	11	Red/White
1	White	11	Green/White
2	Red	12	Blue/White
3	Green	13	Black/Red
4	Orange	14	White/Red
5	Blue	15	Orange/Red
6	White/Black	16	Blue/Red
7	Red/Black	17	Red/Green
8	Green/Black	18	Orange/Green
9	Orange/Black	19	Black/White/Red
10	Blue/Black	20	White/Black/Red
10	Black/White	20	Red/Black/White

Type of board	Connector interface	Decoupling interface	Type of board	Connector interface	Decoupling interface
Boards 8 O DIGITAL			Boards 8 I ANA		
DO 802	2		AI 801	2	
DO 815	2		Boards 8 O ANA		
DO 820	2		AO 801	2	
DO 821	2				

■ Wire markers optional: Consult us

■ Accessories: see section on ACCESSORIES

Recommended cable lengths in boldface type
* Cables UL available only for USA, CANADA, MEXICO

Length	Type of cable	Reference with IEC cables UL	Reference with cables *	Type of cable	Reference with IEC cables UL	Reference with cables *
1 m	LAF100/UNI/OMN20/666	0038 036.10	XUSI02586	LAF100/UNI/OMN20/666	0038 036.10	XUSI02586
1,5 m	LAF150/UNI/OMN20/666	0038 037.11	XUSI02587	LAF150/UNI/OMN20/666	0038 037.11	XUSI02587
2 m	LAF200/UNI/OMN20/666	0038 038.22	XUSI02588	LAF200/UNI/OMN20/666	0038 038.22	XUSI02588
2,5 m	LA250/OMN20/UL	—	XUSI02589	LA250/OMN20/UL	—	XUSI02589
3 m	LAF300/UNI/OMN20/666	0038 039.23	XUSI02590	LAF300/UNI/OMN20/666	0038 039.23	XUSI02590
4 m	LA400/OMN20/UL	—	XUSI02591	LA400/OMN20/UL	—	XUSI02591
5 m	LAF500/UNI/OMN20/666	0038 040.00	XUSI02592	LAF500/UNI/OMN20/666	0038 040.00	XUSI02592

Characteristics

Type of connector	1 Omniconnect 20 points	1 Omniconnect 20 points
Wire size	0,22mm ² - 22 AWG	0,22mm ² - 22 AWG
Resistance/capacity cable	80 Ω/KM - 120 nF/KM	80 Ω/KM - 120 nF/KM
Max. current/Max. voltage	2 A / 250 V	2 A / 250 V