



*Your
Partner in
Excellence*



ABLS
Professional
Light and Sound Range

Professional Light & Sound Range Introduction

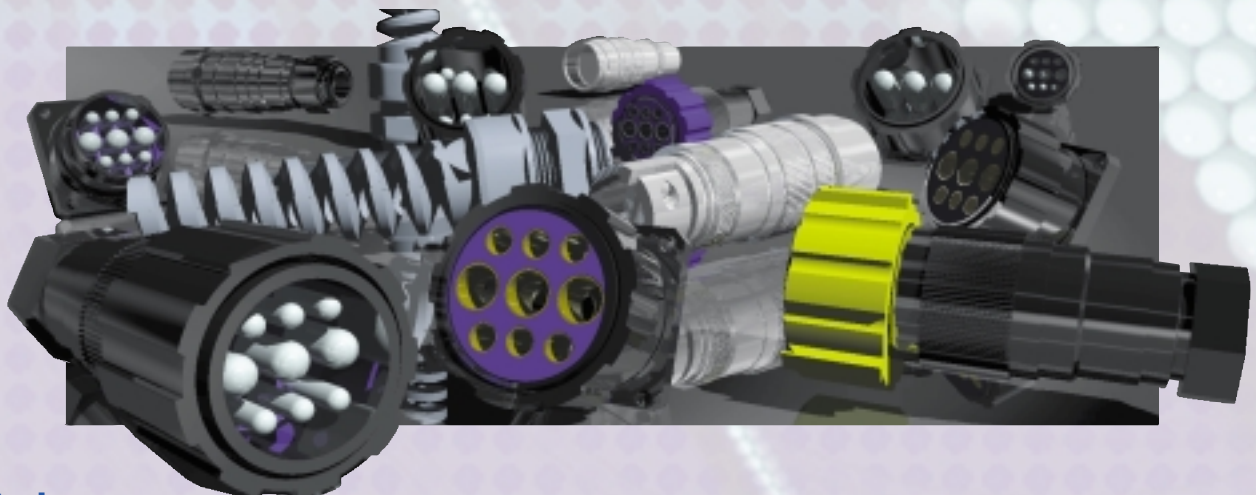


AB Connectors Limited - Company Introduction

For almost 50 years AB Connectors Limited, has been a recognised market leader in the design and manufacture of connectors and interconnection systems for environments where high performance and reliability are mandatory. Customers are offered an unrivalled service through the principal site in South Wales, UK, dedicated assembly facilities in the USA, and a co-ordinated global sales and distribution network.

AB Connectors, has been able to exceed the exacting requirements of the Transportation, Military, Industrial and Commercial markets, through a vigorous routine of continuous research, product development, extensive test facilities, manufacturing investment and industrial competence. The Company holds Quality Assurance approval to ISO 9001 and is working towards environmental accreditation to ISO 14001.

As part of the TT Group PLC, AB Connector's total commitment to providing customers with high levels of service, cost effectiveness, quality and innovative solutions in interconnection products make it the ideal first choice supply partner.



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Product Introduction

ABLS Range - Product Introduction

The ABLS range of connectors has been developed to meet the highest performance expectations of professional light and sound applications. Based on military specifications proved in the battlefield the range offers a pedigree of robustness, reliability and performance. The standard ABLS range is designed for easy, assured mating and handling, and is plated in tough black zinc cobalt. AB Connectors can also offer a wide selection of accessories, finishes, and custom designs to meet any specific requirements.

ABLS Connectors - Features

- Based on International Mil-C-5015 Specification
- Black Zinc Cobalt Standard Finish
- Rapid and Secure 3-Pin Coupling
- Long Coupling Nut for Secure Handling
- Optional Standard Length Rubber Covered Coupling Nut
- 120° Rotation. Full Mating Signified by Audible 'Snap' & Alignment of 3 Coloured Spots
- Long Backshell with Cable Gland or Clamp with Heat Shrink Feature
- Tough Aluminium Alloy Body Parts, Low Fire Hazard Rubber Insulators
- Optional Non-Conductive, Coloured Finish
- Full Environmental Protection to IP67 when using Sealed Backshell/Accessory
- Gold or Silver Plated Crimp Contacts
- Assembled Using Industry Standard Tooling
- Sealing Protective Caps
- 
- UL approval pending

Lighting

- Head to Ballast Lighting Connectors Suit 575W to 18Kw requirements
- Non-Earthing or Earthing Versions with Integral Tag & 'First Make, Last Break' Contact

Audio

- Audio Connectors can Accommodate up to 48 Channels
- Low Insertion Force Socket contacts

Professional Light & Sound Range Technical Data



Materials

Connector Metalwork:	Aluminium Alloy
Insulator:	Low Fire Hazard Rubber
Contacts:	Copper Alloy

Standard Plating Finishes

Connector Metalwork:	Zinc Cobalt. Black passivate (Conductive)
Contacts:	Hard Silver or Gold

Design Features:

Coupling:	1/3 Turn Bayonet Lock with Audible Snap and Visual Indicators
Sealing:	IP67 Rated when mated - UL50 pending
Temperature Range:	-55°C to + 125°C
Vibration:	5-500Hz long endurance. 30 hour test at 10g
Matings:	2000 Minimum

Contact Arrangements Selection Chart

Contact Size AWG & Current Rating (Derated)
Amps at 85°C

	Shell Size	Contact Arr	Number of Contacts	18	16	12	8	4	Shell Orientation	Service Rating
LIGHTING	16S	1	7		7 x 10A				NWZ	A
	20	15	7			7 x 20A			NWZ	A
	24	2	7			7 x 20A			NWZ	D
	24	11	9			6 x 20A	3 x 42A		NWXYZ	A
	28	10	7			3 x 20A	2 x 42A	2 x 75A	NWXYZ	See Note
	28	22	6		3 x 10A			3 x 75A	NWXYZ	D
	28	A9	9		5 x 10A			4 x 75A	NWXYZ	A
	32	68	16		12 x 10A			4 x 75A	NWXYZ	A
	40	A10	8		4 x 10A			4 x 75A	NWXYZ	D
AUDIO	20	11	13		13 x 10A				N	I
	24	A25	25		25 x 10A				NWXYZ	A
	28	21	37		37 x 10A				NWXYZ	A
	32	22	54		54 x 10A				NWXYZ	A
	40	56	85		85 x 10A				NWXYZ	A
	40	A150	150	150 x 5A					N	I

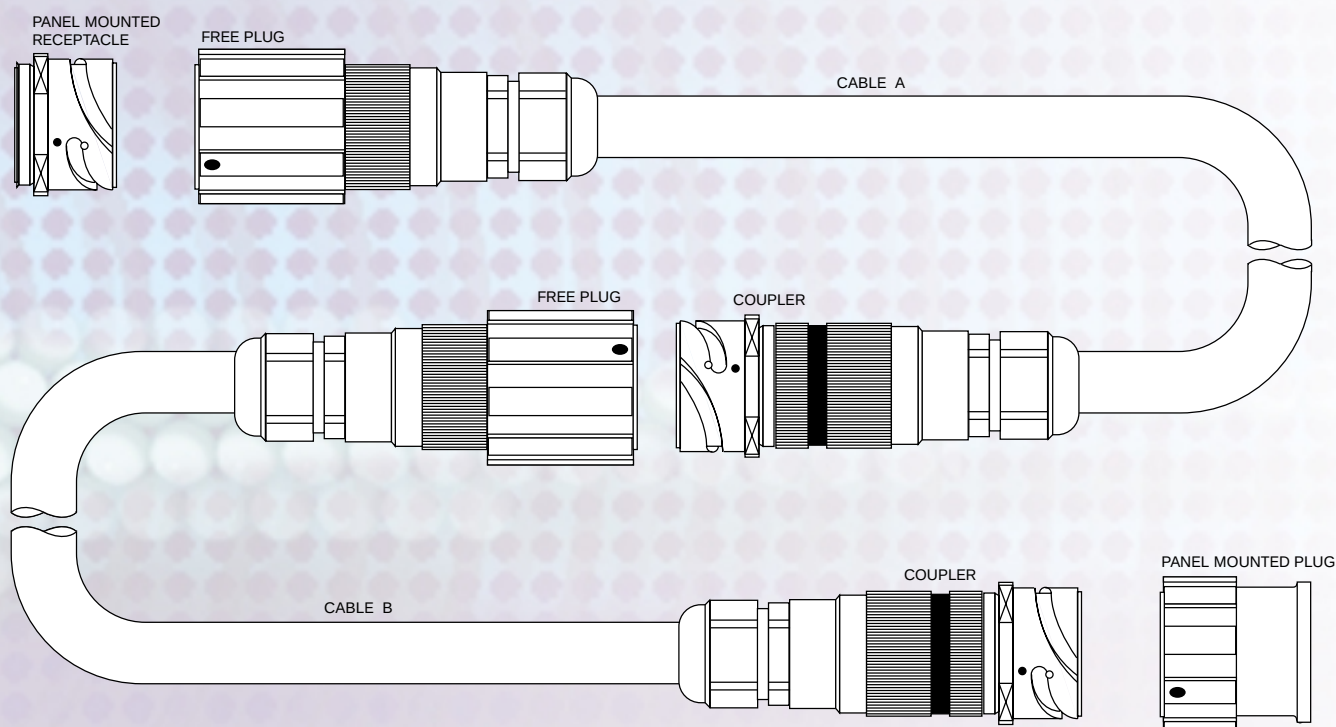
Note. 28-10, contact G = D, Balance = A

Contact Arrangement Services Rating

	Sea Level		
Service rating	A	D	I
Working Voltage			
DC or AC Peak	700V	1,250V	350V
Voltage Proof			
AC RMS	2,000V	2,800V	1000V
Minimum Flashover			
AC RMS	2,800V	3,600V	1,400V

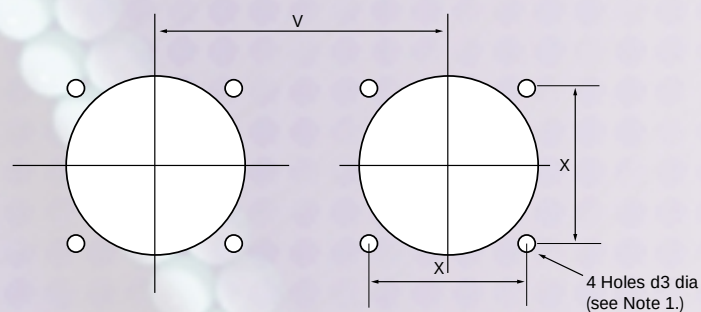
Professional Light & Sound Range Technical Data

Connectors are easily daisy chained



Cable Harness A & B are identical, and can be added or removed to alter the length of cable runs.

Panel Mounting Details



Note 1.

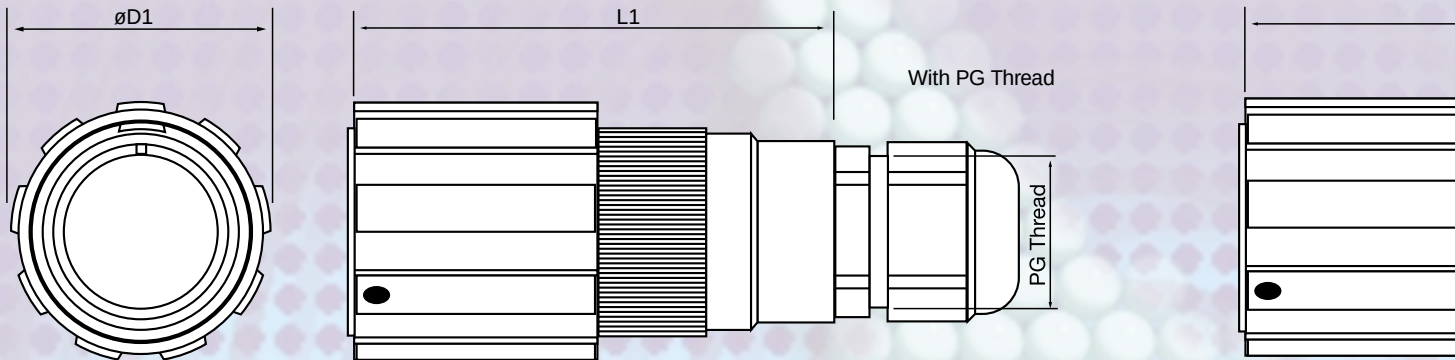
When connectors are used with threaded mounting holes, refer to hole sizes in column $\varnothing d4$

Shell Size	$\varnothing d3$	$\varnothing d4$	V	$\varnothing W1$	X
16S	3,40	4,50	34,40	27,80	24,60
20	3,40	4,50	41,70	34,60	29,40
24	3,90	4,50	48,70	41,30	34,90
28	3,90	5,50	55,50	47,10	39,70
32	4,50	5,50	62,40	53,80	44,50
40	4,50	5,50	75,00	66,40	55,50

Professional Light & Sound Range ABLSSE13



Cable Mounted Plug Style:- ABLSE13



ABLSSE13 - PG Tread

Shell Size	ØD1 Max	L1
16S	33,4	72.0
20	40.7	82.0
24	47.7	92.0
28	54.5	92.0
32	61.4	92.0
40	74.0	92.0

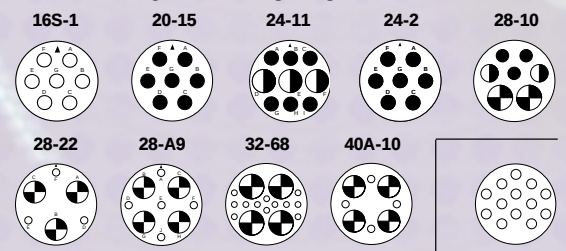
ABLSSE13 - Cable Clamp

Shell Size	ØD11 Max	ØD12 Max	L21
16S	33.4	17,7	108.0
20	40.7	21,6	118.0
24	47.7	25,4	128.0
28	54.5	28.8	128.0
32	61.4	32,6	128.0
40	74.0	39,2	128.0

ABLS SE13 T 24-11 P N ## ##

Series Prefix:
Shell Style:
SE13 - Plug
Earthing:
leave blank - non earthed
E - earthing tag
Coupling Nut:
leave blank - Extended Coupling Nut
PK - Rubber Coupling Nut (Black)
PB - Rubber Coupling Nut (Blue)
PG - Rubber Coupling Nut (Green)
PY - Rubber Coupling Nut (Yellow)
PR - Rubber Coupling Nut (Red)
Accessory Type:
TF = PG21 for sizes 16, 20, 24
TG = PG29 for sizes 28, 32, 40
AC - Cable Clamp
For other Gland sizes
See Page 15
Shell Size & Contact Arrangements:
Contact Type:
P - Pin Contact
S - Socket Contact
Insert Orientation:
N, W, X, Y or Z See Page 3 - Contact Arrangements Selection Chart
Modification Code:
M17 - Zinc Cobalt Silver
M134 - Black Epoxy
M146 - Anodise yellow
M147 - Anodise green
M148 - Anodise red
M149 - Anodise blue
} Non - Conductive
Contact Supply:
Leave blank for silver plated contacts.
Add P3 for gold plated contacts.
add V0 for connector without contacts.

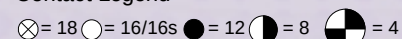
Contact Arrangements - Lighting

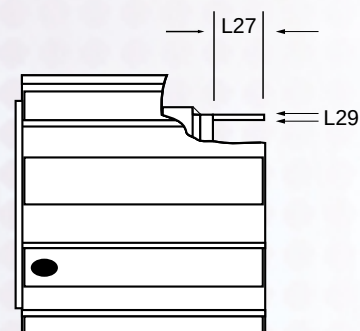
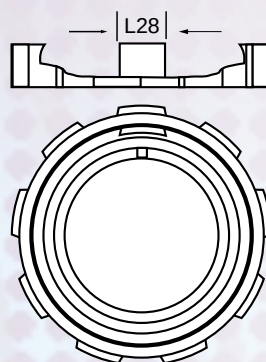
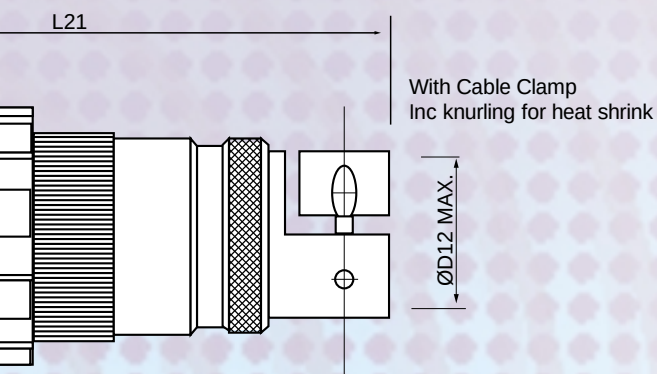


Contact Arrangements - Audio



Contact Legend

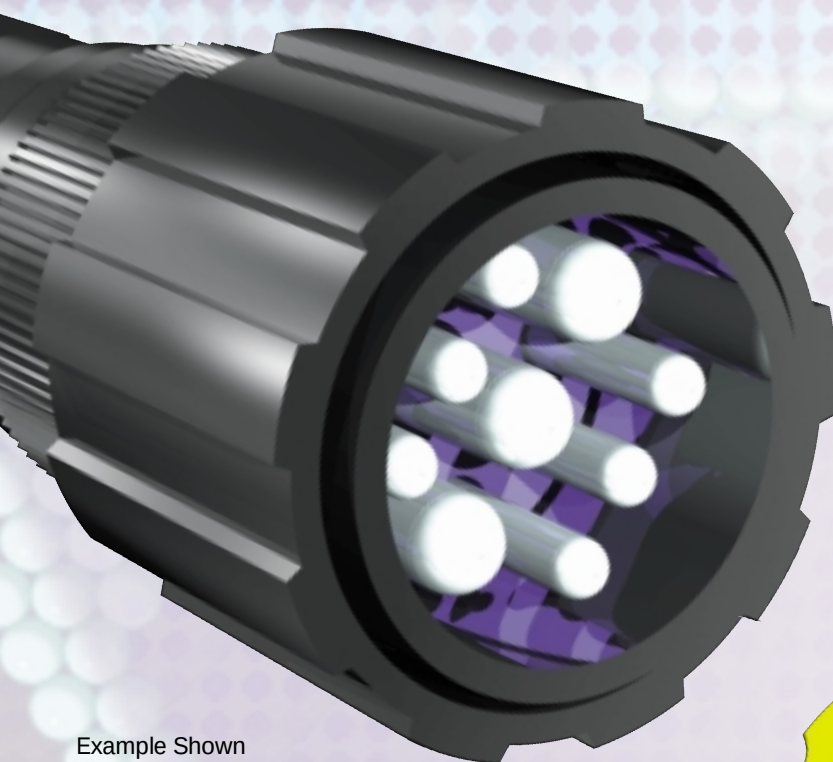




Earthing Tags Dimensions

Shell Size	L27	L28	L29
16S	10.0	6.0	0.8
20	12.0	6.0	0.8
24	12.0	6.0	0.8
28	12.0	6.0	0.8
32	12.0	6.0	0.8
40	12.0	6.0	0.8

Note: Extended Length Earth Contact positioning at users discretion



Example Shown

ABLS SE13 E TF 24 -11 P N

ABLS, Shell Style SE13, Earthing Tag, Accessory Type TF (PG21 Cable Gland), 24-11 Contact Arrangement, Pin Contact, N Insert orientation, Finished in Black Zinc Cobalt, Silver contacts

Example Shown

ABLS SE13 E PY TF 24 -11 S N

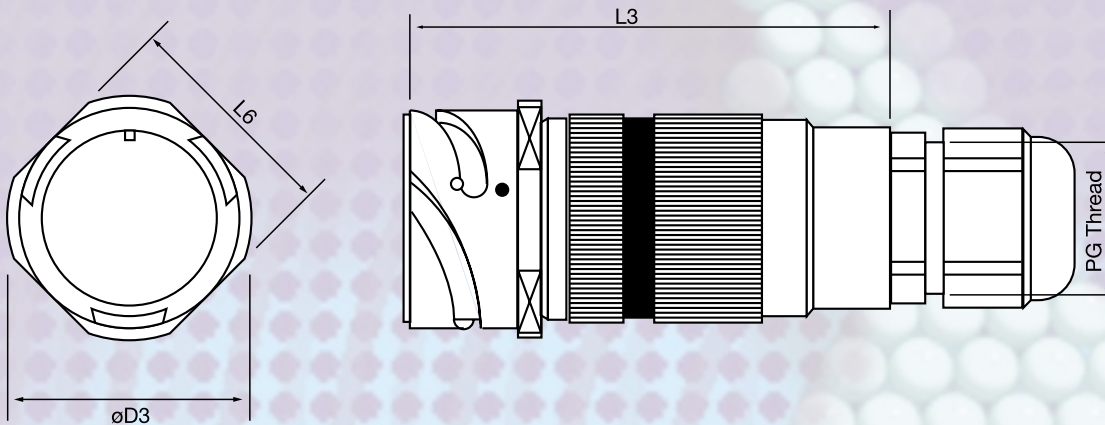
ABLS, Shell Style SE13, Earthing Tag, Yellow Rubber Coupling Nut, Accessory Type TF (PG21 Cable Gland), 24-11 Contact Arrangement, Socket Contact, N Insert orientation, Finished in Black Zinc Cobalt, Silver contacts



Professional Light & Sound Range ABLS01



Cable Mounted Receptacle Style:- ABLS01



ABLS01 - PG Thread

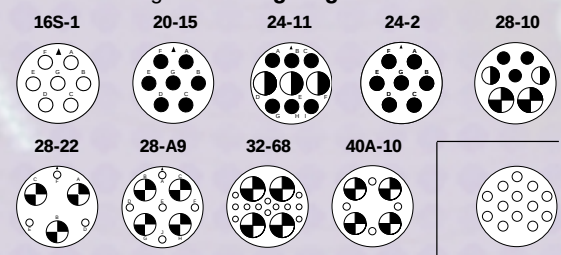
Shell Size	L3	L6 Max	D3
16S	72	28.8	32,3
20	82	35.1	37,8
24	92	41.5	44,6
28	92	47.8	50.9
32	92	54.2	57,1
40	92	66.7	70

ABLS01 - Cable Clamp

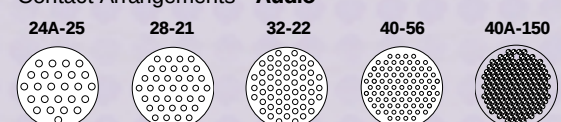
Shell Size	øD15 Max	L23
16S	17,7	108.0
20	21,6	118.0
24	25,4	128.0
28	28,8	128.0
32	32,6	128.0
40	39,2	128.0

Series Prefix ABLS
Shell Style: 01
 01 - Cable Mounted Receptacle
Earthing
 leave blank - Non Earthed
 E - Earthing Tag
Accessory Type:
 AC - Cable Clamp
 TF = PG21 for sizes 16, 20, 24
 TG = PG29 for sizes 28, 32, 40
 For other gland size see Page 15
Shell Size & Contact Arrangements:
Contact Type:
 P - Pin Contact
 S - Socket Contact
Insert Orientation:
 N, W, X, Y or Z See Page 3
Modification Code:
 M17 - Zinc Cobalt Silver
 M134 - Black Epoxy
 M146 - Anodise yellow
 M147 - Anodise green
 M148 - Anodise red
 M149 - Anodise blue
 } Non - Conductive
Contact Supply:
 Leave blank for silver plated contacts.
 Add P3 for gold plated contacts.
 add V0 for connector without contacts.

Contact Arrangements - Lighting

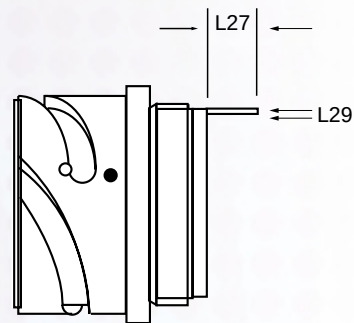
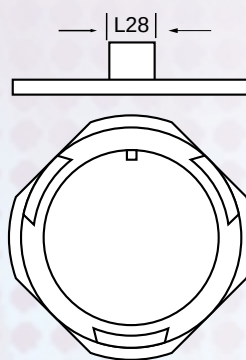
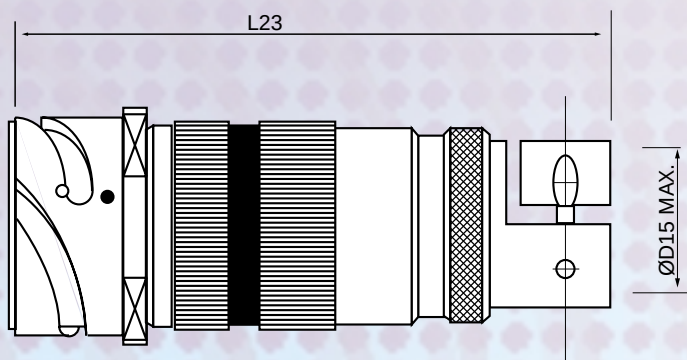


Contact Arrangements - Audio



Contact Legend

⊗ = 18 ○ = 16/16s ● = 12 ◐ = 8 ◑ = 4



With Cable Clamp
Inc knurling for heat shrink

Earthing Tags Dimensions

Shell Size	L27	L28	L29
16S	10.0	6.0	0.8
20	12.0	6.0	0.8
24	12.0	6.0	0.8
28	12.0	6.0	0.8
32	12.0	6.0	0.8
40	12.0	6.0	0.8

Note: Extended Length Earth Contact positioning at users discretion



Example Shown

ABLS01 TF 24-11 S N

ABLS, Shell Style 01, No Earthing Tag,
Accessory Type TF (PG21 cable Gland), 24-
11 Contact Arrangement, Socket Contact, N
Insert orientation, Finished in Black Zinc
Cobalt, Silver contacts

Example Shown

ABLS01 AC 24-11 P N M17

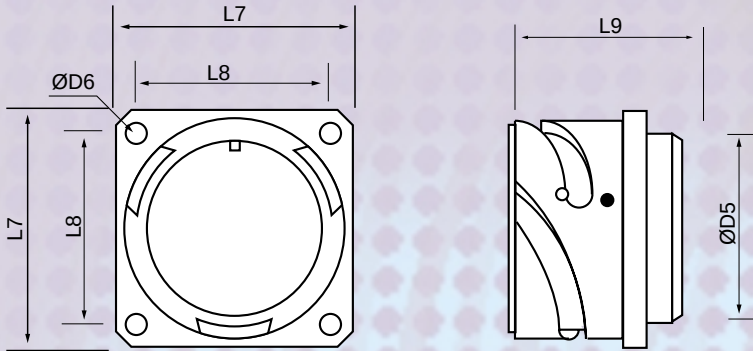
ABLS, Shell Style 01, No Earthing Tag,
Accessory Type AC (Cable Clamp), 24-11
Contact Arrangement, Pin Contact, N Insert
orientation, Finished in Zinc Cobalt Silver,
Silver contacts



Professional Light & Sound Range ABLS03



**Panel Mounted Receptacle
with Accessory Thread
Style:- ABL03**



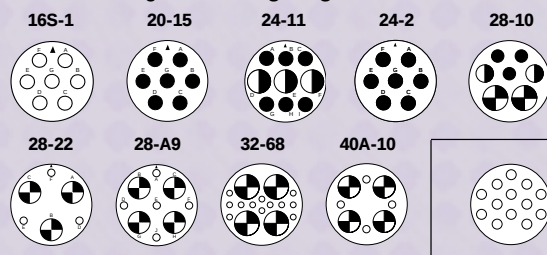
Maximum Panel Thickness 3.3 mm

See page 4 for panel cutout dimensions

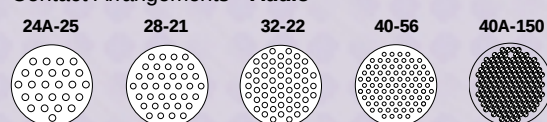
ABLS03T

Shell Size	ØD5 Max	ØD6	ØD6 (M6 Mod)	L7 Max	L8	L9 Max
16S	22,40	3.2	M4	32.8	24.6	29.5
20	29,00	3.2	M4	38.3	29.4	42
24	35,30	3.7	M4	44.8	34.9	42
28	41,40	3.7	M5	51.1	39.7	42
32	47,80	4.3	M5	57.3	44.5	42
40	59,00	4.3	M5	70.2	55.5	42

Contact Arrangements - Lighting



Contact Arrangements - Audio



Contact Legend

⊗ = 18 ○ = 16/16s ● = 12 ◐ = 8 ◑ = 4



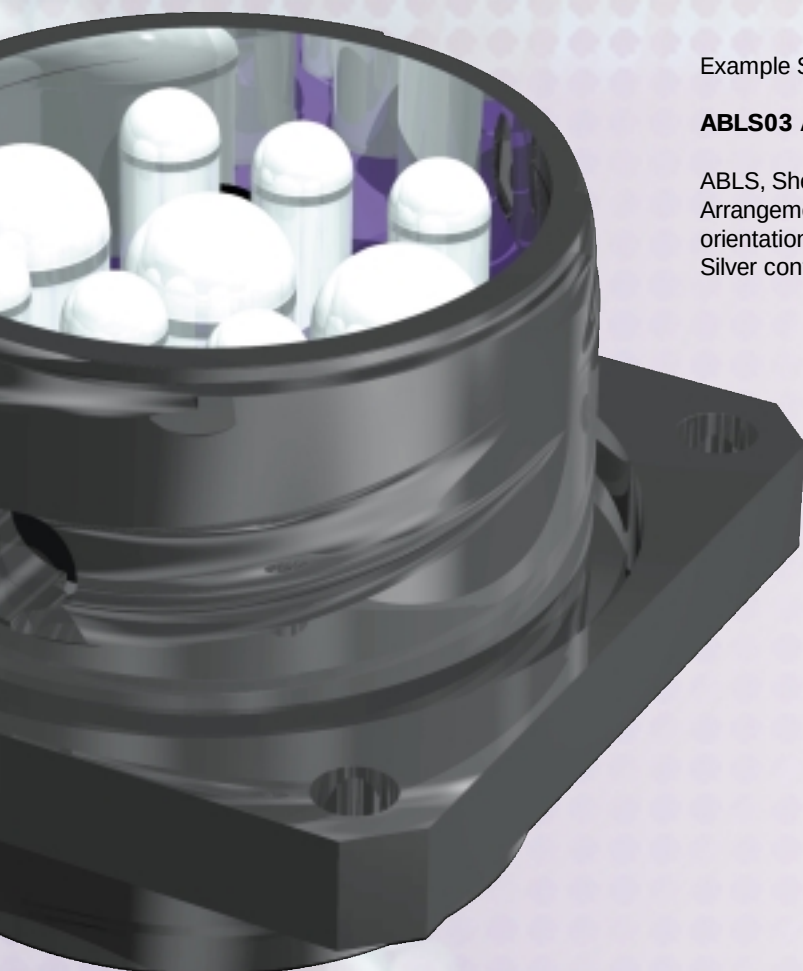
		<u>ABLS</u>	<u>03A</u>	<u>24-11</u>	<u>P</u>	<u>N</u>	<u>##</u>	<u>##</u>
Series Prefix		↑	↑	↑	↑	↑	↑	↑
Shell Style:		↑	↑	↑	↑	↑	↑	↑
03A	-		Panel Mounted Receptacle					
Shell Size & Contact Arrangements:		↑	↑	↑	↑	↑	↑	↑
Contact Type:		↑	↑	↑	↑	↑	↑	↑
P	-		Pin Contact					
S	-		Socket Contact					
Insert Orientation:		↑	↑	↑	↑	↑	↑	↑
N, W, X, Y or Z	See Page 3							
Modification Code:		↑	↑	↑	↑	↑	↑	↑
M6	-		Tapped Holes					
M17	-		Zinc Cobalt Silver					
M134	-		Black Epoxy					
M146	-		Anodise yellow					
M147	-		Anodise green					
M148	-		Anodise red					
M149	-		Anodise blue					
Contact Supply:		↑	↑	↑	↑	↑	↑	↑
Leave blank for silver plated contacts.								
Add P3 for gold plated contacts.								
add V0 for connector without contacts.								



Example Shown

ABLS03 A 24 -11 P N

ABLS, Shell Style 03A, 24-11 Contact Arrangement, Pin Contact, N Insert orientation, Finished in Black Zic Cobalt, Silver contacts



Example Shown

ABLS03 A 24 -11 S N M134

ABLS, Shell Style 03A, 24-11 Contact Arrangement, Socket Contact, N Insert orientation, Finished in Black Epoxy, Silver contacts

Professional Light & Sound Range ABLS10A



Panel Mounted Plug Style:- ABL10A

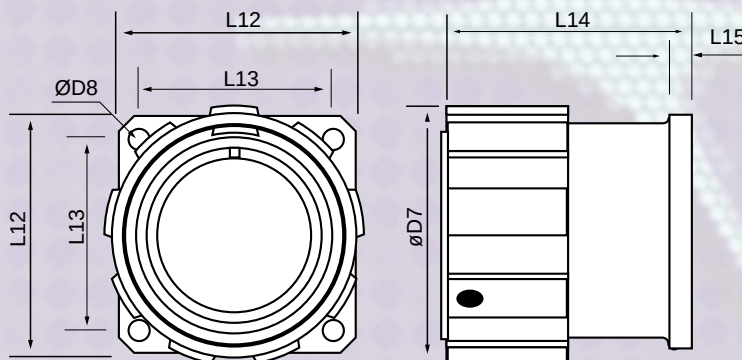
ABLS 10A 24-11 P N ## ##

Series Prefix:
 Shell Style: Panel Mounted Plug
 Coupling Nut: Standard Coupling Nut
 leave blank:
 PK - Rubber Coupling Nut (Black)
 PB - Rubber Coupling Nut (Blue)
 PG - Rubber Coupling Nut (Green)
 PY - Rubber Coupling Nut (Yellow)
 PR - Rubber Coupling Nut (Red)
 Shell Size & Contact Arrangements:
 Contact Type:
 P - Pin Contact
 S - Socket Contact
 Insert Orientation:
 N, W, X, Y or Z - See Page 3
 Modification Code:
 M6 - Tapped holes
 M17 - Zinc Cobalt Silver
 M134 - Black Epoxy
 M146 - Anodise yellow
 M147 - Anodise green
 M148 - Anodise red
 M149 - Anodise blue
 } Non - Conductive
 Contact Supply:
 Leave blank for silver plated contacts.
 Add P3 for gold plated contacts.
 add V0 for connector without contacts.

Example Shown

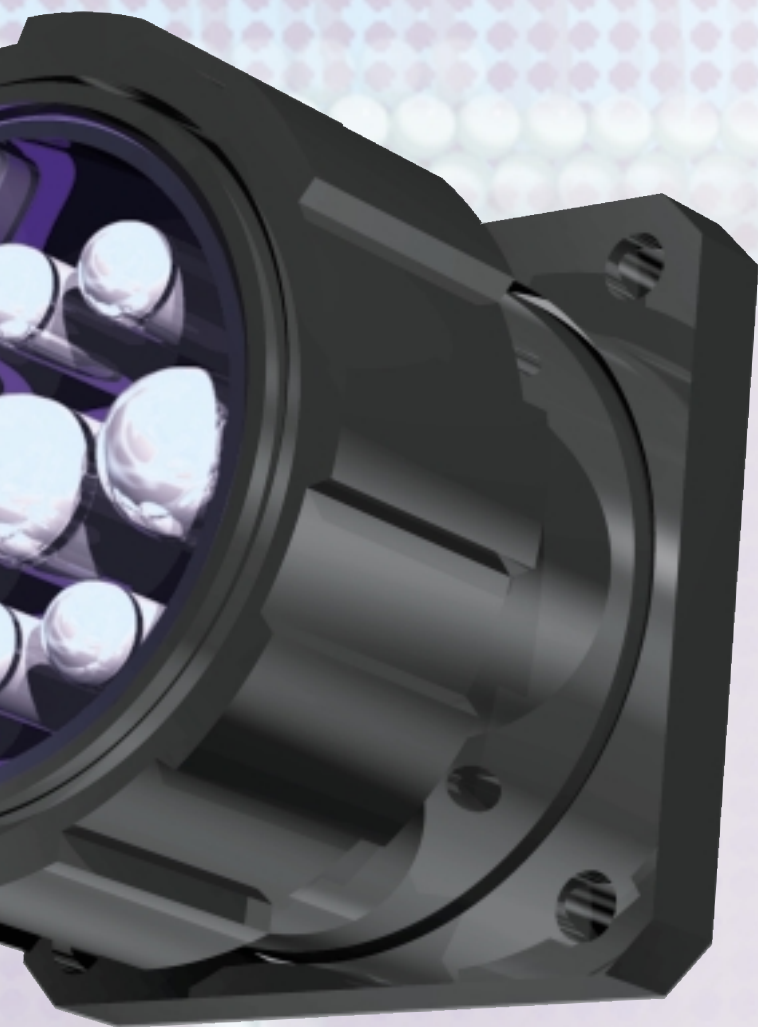
ABLS10 A 24 -11 P N

ABLS, Shell Style 10A, 24-11 Contact Arrangement,
Pin Contact, N Insert orientation, Finished in Black
Zinc Cobalt, Silver contacts

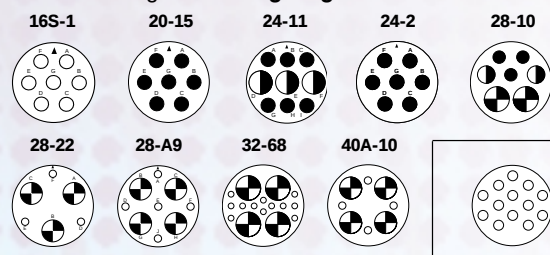


ABLS10A

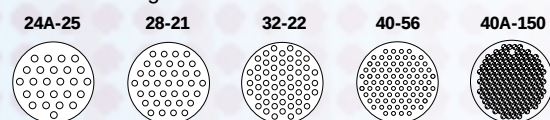
Shell Size	ØD7 Max	ØD8	D8 (M6 Mod)	L12	L13	L14	L15
16S	33.4	3.2	M4	32.8	24.6	28.1	3.4
20	40.7	3.2	M4	38.3	29.4	38.6	4.2
24	47.7	3.2	M4	44.8	34.9	41.0	4.2
28	54.5	3.8	M5	51.1	39.7	41.8	4.2
32	61.4	4.3	M5	57.3	44.5	45.0	4.2
40	74.0	4.3	M5	70.2	55.5	45.0	4.2



Contact Arrangements - Lighting



Contact Arrangements - Audio



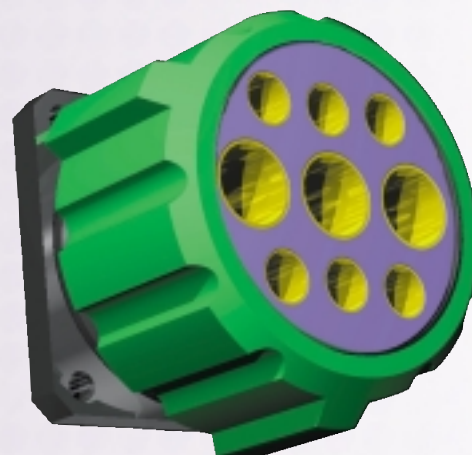
Contact Legend

⊗ = 18 ○ = 16/16s ● = 12 ◐ = 8 ◑ = 4

Example Shown

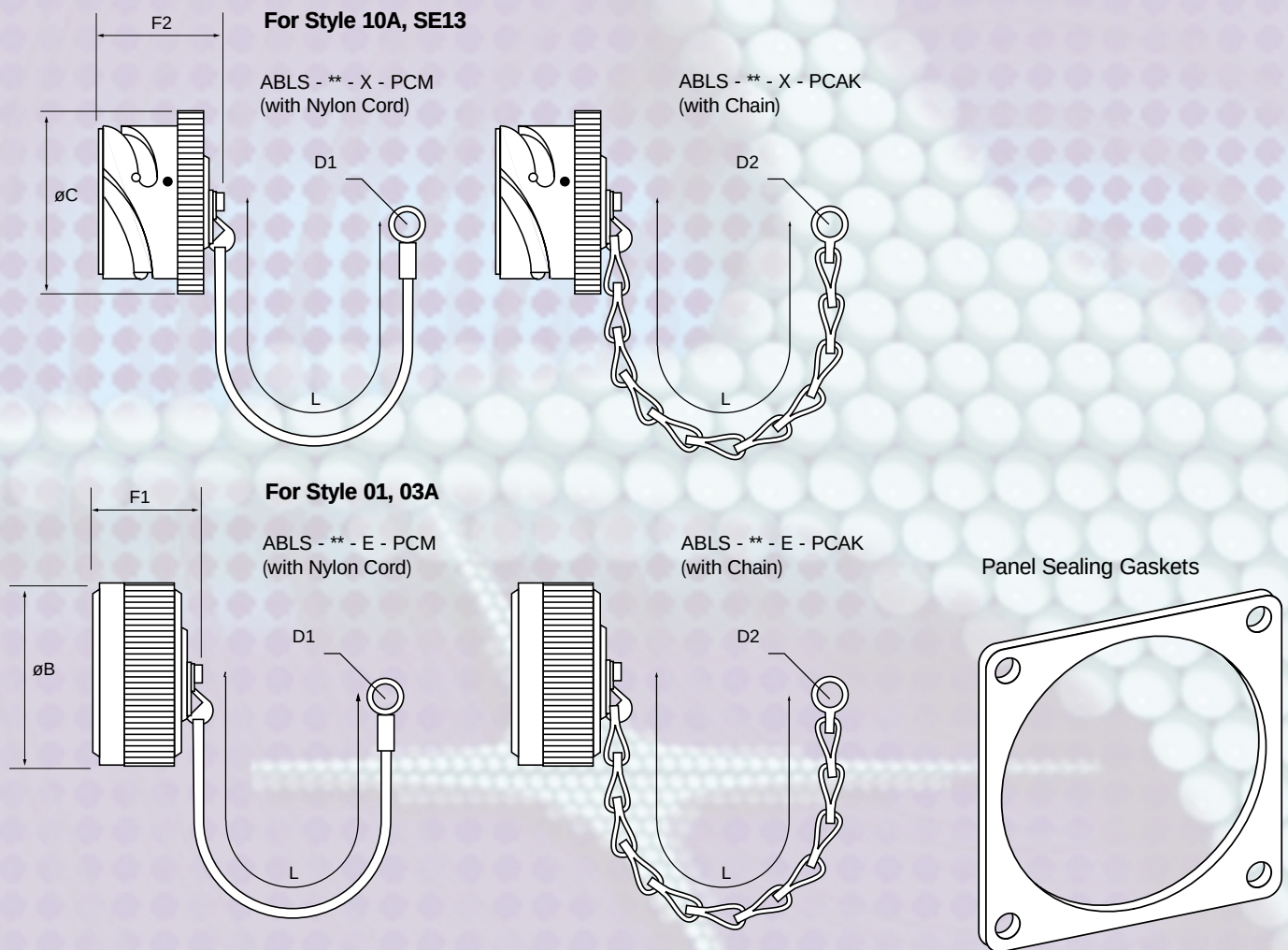
ABLS10A PG 24 -11 S N M134P3

ABLS, Shell Style 10A, Green Rubber, Coupling nut, Contact Arrangement, Socket Contact, N Insert orientation, Finished in Black Epoxy, Gold contacts



Professional Light & Sound Range Protective Caps & Gaskets

Protective Caps with Cord or Stainless Steel Chain



Shell size	øB Max	øC Max	F1 Max	F2 Max	L approx	D1 Min	D2 +0.5, -0
16S	32,40	35,30	24,60	28,40	100,00	4,85	4,30
20	39,90	42,10	29,80	33,90	150,00	4,85	4,30
24	46,60	48,80	29,80	33,90	150,00	4,85	4,30
28	53,40	54,60	29,80	33,90	150,00	4,85	4,30
32	60,10	61,30	29,80	33,90	150,00	4,85	5,50
40	72,10	73,40	29,80	33,90	150,00	4,85	5,50

Panel Mounted Receptacle
ABLS 03A
Part Number
SB - ** - FPG - Non Conductive
SB - ** - FPGS - Conductive

** - Shell Size

Panel Mounted Plug
ABLS10A
Part Number
SB - ** - RPG - Non Conductive
SB - ** - RPGS - Conductive

** - Shell Size

Professional Light & Sound Range Contacts

Pin Contact

PIN CONTACTS
Contact size

AWG	Part Number	Conductor CSAmm ²
18	ABB18KPKF80	0,75/0,93
16	ABB16KPKF80	0,93/1,50
12	ABB12KPKF80	2,50/3,00
8	ABB8KPKF80	9,00
4	ABB4KPKF80	22,00

EXTENDED LENGTH PIN EARTH CONTACTS

AWG	Part Number	Conductor CSAmm ²
16	ABB16KPKLF80	0,93/1,50
12	ABB12KPKLF80	2,50/3,00

**Extended Length Pin
Contact**

Socket Contact

SOCKET CONTACTS
Contact size

AWG	Part Number	Conductor CSAmm ²
18	ABB18KSKF80	0,75/0,93
16	ABB16KSKF80	0,93/1,50
12	ABB12KSKF80	2,50/3,00
8	ABB8KSKF80	9,00
4	ABB4KSKF80	22,00

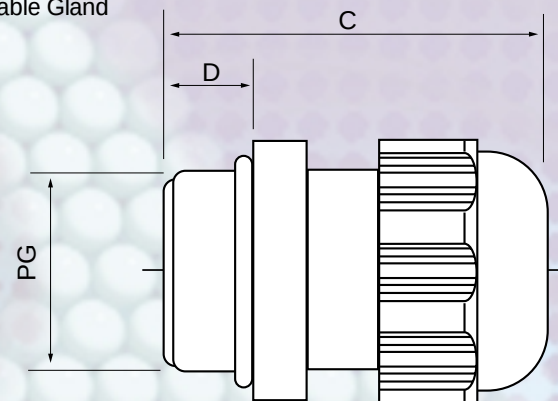
Note.
Part numbers are for
silver contacts. For
gold add 'P3' to end
of Part No.
ie. ABB16KPKF80P3

Professional Light & Sound Range Cable Accessories

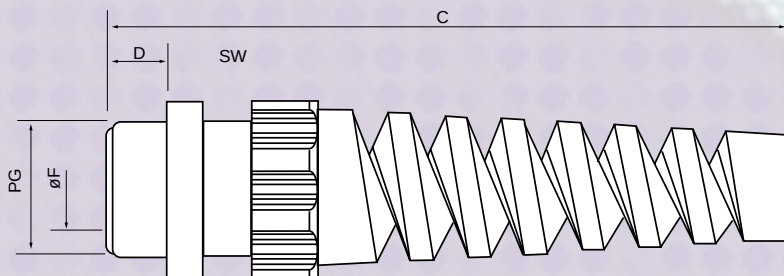


Type PG - size	Clamping Range mm	Wrench size mm	C mm	D mm
ABPGST7	2,5 - 6,5	15	32	8
ABPGST9	3,5 - 8	19	36	8
ABPGST11	4 - 10	22	38	8
ABPGST13,5	6 - 12	24	41	9
ABPGST16	9 - 14	27	44	10
ABPGST21	13 - 18	33	49	11
ABPGST29	14 - 25	42	56	11
ABPGST36	24 - 32	53	66	13
ABPGST42	35 - 38	60	68	13
ABPGST48	39 - 44	65	69	14

PG Cable Gland



Spiral Bending Protection Cable Clamp



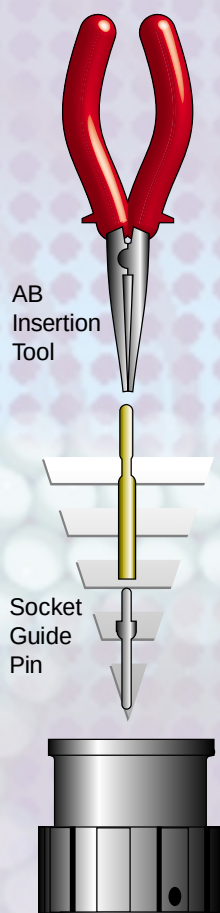
Type PG - size	Clamping Range mm	Wrench size mm	C mm	D mm
ABBS7	2,5 - 6,5	15	62	8
ABBS9	3,5 - 8	19	73,5	8
ABBS11	4 - 10	22	86	8
ABBS13,5	6 - 12	24	98	9
ABBS16	9 - 14	27	111,5	10
ABBS21	13 - 18	33	129	11

Wire Protection Cable Clamp (Kellems)



For all Technical Details please consult the factory

Professional Light & Sound Range Tooling



AB
Extraction
Tool

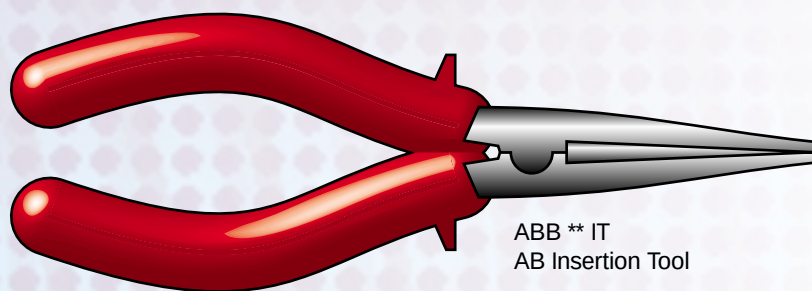
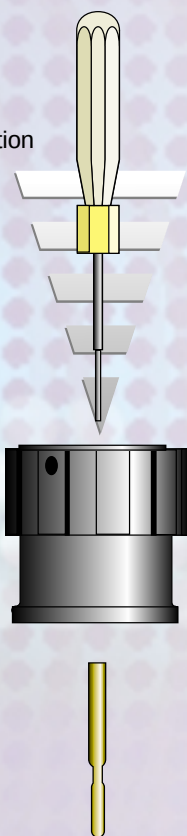


ABB ** IT
AB Insertion Tool

** Contact Size

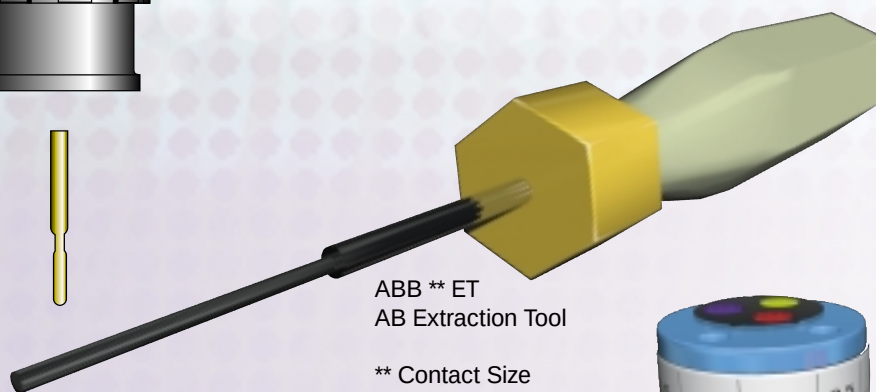
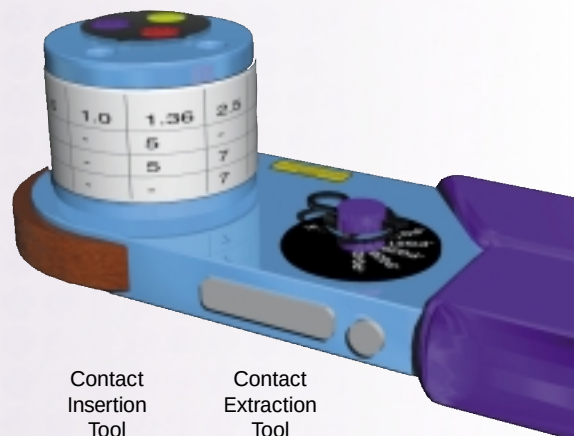


ABB ** ET
AB Extraction Tool

** Contact Size

Contact Crimping Tool



Contact Size & Type	Contact Part Number	Crimp Tool Required	Turret/ Locator	Tool Setting	Tool Position	Contact Insertion Tool	Contact Extraction Tool
18 Pin	ABB18KPKF80	AF8/WA27F	TH592	4	Blue	ABB18IT	ABB18ET
18 Skt	ABB18KSKF80	AF8/WA27F	TH592	4	Red	ABB18IT	ABB18ET
16 Pin	ABB16KPKF80	AF8/WA27F	TH592	5	Blue	ABB18IT	ABB18ET
16 Skt	ABB16KSKF80	AF8/WA27F	TH592	5	Red	ABB18IT	ABB18ET
12 Pin	ABB12KPKF80	AF8/WA27F	TH592	7	Yellow	ABB18IT	ABB18ET
12 Skt	ABB12KSKF80	AF8/WA27F	TH592	7	Yellow	ABB18IT	ABB18ET
8 Pin	ABB8KPKF80	Erma 19600	Die set 22390	-	-	-	-
8 Skt	ABB8KSKF80	Erma 19600	Die set 22390	-	-	-	-
4 Pin	ABB4KPKF80	Erma 19600	Die set 22391	-	-	-	-
4 Skt	ABB4KSKF80	Erma 19600	Die set 22391	-	-	-	-

Professional Light & Sound Range Standard Wiring



Ch.4 = 20-11

Ch.	+	-	G
1	B	C	E
2	F	K	H
3	J	D	A
4	N	M	G
General Ground			L

Ch.8 = 24-A25

Ch.	+	-	G
1	A	E	F
2	G	C	B
3	D	H	J
4	M	L	K
5	Q	P	N
6	W	S	R
7	T	X	Y
8	Z	V	U
General Ground			a

Ch. 12 = 28-21

Ch.	+	-	G
1	E	F	A
2	B	C	G
3	H	J	D
4	S	T	K
5	L	M	U
6	V	W	N
7	P	R	X
8	a	b	g
9	c	d	j
10	e	f	m
11	n	p	h
12	r	s	k
General Ground			Z

Ch. 16 = 32-22

Ch.	+	-	G
1	W	f	r
2	J	R	a
3	k	v	AC
4	E	M	V
5	e	q	y
6	B	H	P
7	Z	j	u

8	D	L	U
9	d	p	x
10	A	G	O
11	Y	h	t
12	C	K	T
13	c	n	w
14	F	N	X
15	g	s	AB
16	S	b	m
General Ground			AG

Ch. 28 = 40-56

Ch.	+	-	G
1	A	B	C
2	E	F	H
3	J	K	L
4	N	P	R
5	S	T	U
6	X	Y	Z
7	a	b	c
8	d	f	g
9	h	i	j
10	k	m	n
11	p	q	r
12	t	u	v
13	w	x	y
14	z	AA	AB
14	AC	AD	AE
16	AF	AH	AJ
17	AK	AL	AM
18	AP	AR	AS
19	AT	AU	AV
20	AW	AX	AY
21	AZ	BA	BB
22	BC	BD	BE
23	BJ	BK	BL
24	BM	BN	BP
25	BS	BT	BU
26	BV	BR	BF
27	BH	AN	s
28	W	M	D
General Ground			BV

CH. 48 = 40-A150

Ch.	+	-	G
1	1	2	3
2	5	6	7

3	8	9	10
4	11	12	13
5	14	15	16
6	17	18	19
7	21	22	23
8	24	25	26
9	27	28	29
10	20	30	31
11	32	33	34
12	35	36	37
13	38	39	40
14	41	42	43
15	44	45	46
16	47	48	49
17	50	51	52
18	53	54	55
19	57	58	59
20	60	61	62
21	63	64	65
22	66	67	68
23	69	70	71
24	72	73	74
25	75	76	77
26	78	79	80
27	82	83	84
28	85	86	87
29	88	89	90
30	91	92	93
31	94	95	96
32	97	98	99
33	100	101	102
34	103	104	105
35	56	81	106
36	107	108	109
37	110	111	112
38	113	114	115
39	116	117	118
40	119	120	121
41	122	123	124
42	125	126	127
43	139	128	129
44	130	131	132
45	133	134	135
46	136	137	138
47	140	141	142
48	143	144	145
General Ground			150

Arrangement by Manufacturer

	Arri	De Sisti	Strand	Cine Mills	Mole	Lee	LTM	Sunray
575	24-2W	24-2Z	24-2Z	24-2Z	24-2Z	16S-1	20-15	24-2Z
1,200	24-2W	24-2W	24-2W	24-2W	24-2W	20-15	20-15	24-2Z
2,500	24-2	24-2	24-2	24-2		20-15	24-2	24-2
4,000	24-2	24-11	24-11	24-11		24-11X	24-11	24-11
6,000	28-22	32-68	32-68	32-68	28A-9(2)	24-11	28A-9(2)	28A-9(2)
12,000	28A-9(1)	32-68	40A-10	28-10	40A-10	24-11	28A-9(2)	28-10
18,000	28A-9(1)	32-68	40A-10	28-10	40A-10		28-A-9(2)	28-10

(1) Female pins on connector with locking ring

(2) Male pins on connector with locking ring

Product Safety

The connectors referred to in this catalogue may be safely used within the special ratings and environment for which they have been designed.

However, they comprise a complex build of different materials including metals and plastics which themselves are plated and cleaned with various chemical compounds during the assembly process. It is important to understand that hazards can occur if connectors are used:-

1. Outside the specified design criteria and/or incorrectly integrated into equipment.
2. When damaged in use, assembly, transit or storage.
3. Incorrectly wired or assembled.
4. Where the quality of installation is below the standard required to maintain and uphold good practice.
5. Where good housekeeping is not observed during use, assembly, transit or storage and allowing contamination from debris and fluids etc.

Safety Rules

1. Ensure all conductors & wires are capable of withstanding the electrical and environmental conditions of the application.
2. Always use the correct tools for cables, contacts and connectors.
3. Make circuit resistance checks before making a circuit live.
4. Always protect line circuits and **never** demate a live connector.
5. Never use a damaged connector.
6. Never burn discarded connectors or cable.
7. If in doubt ask.

NB: Electrical safety factors are the responsibility of the user.

Note. The company reserves the right and may change or vary specification without prior written notice.



AB Connectors Ltd

Abercynon, Mountain Ash

Mid Glamorgan, CF45 4SF, UK.

Tel: + (0) **1443 740331**

Fax: + (0) **143 741676**

Internet: <http://www.ttabconnectors.com>

Email: sales@ttabconnectors.com

USA

AB Connectors Division

Business US 70 East

Smithfield NC 27577

Tel: **919 934 5181**

Fax: **919 934 0562**

Email: abconnectors@abautomotiveusa.com