D-Subminiature Assembly

Shielded 9-Position and 15-Position

Dovi	No.		Length	of Body			Length	of Tail		Conductors	5	Shield		ation mess	Jac Thick	ket ness	Nomir	nal OD
Part No.	of	Retra	acted	Exte	nded	Connec	tor End	Othe	r End	AWG (stranding)		Drain	111101	11033	THICK	11033		
110.	Cond.	Inch	mm	Inch	mm	Inch	mm	Inch	mm	[Dia.in mm]	Туре	Wire	Inch	mm	Inch	mm	Inch	mm

9-Position Shielded D-Sub • Male Straight Handle One End • For keyboard-to-CRT use where 9-pin retractile is desired

Foil Shield (General Purpose) • Retractile • Polypropylene Insulation • Black Polyurethane Jacket 2286 457 26 Overall 20 (42x36) .006 .065 1.65 .250 6.35 (19x38)Foil Polyurethane jacket provides superior retractile properties at a reasonable cost. Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. **Tinned Copper** All connectors are tin-plated with detents for a positive ground connection. [.53] The end opposite the connector is stripped. Jack screw retention on male connector.

30V 60°C, UL AWM Style 20197



Part No.	No. of	Standard	Lengths	Gender	UL NEC/	Conductors AWG	Sh	ield	Insul Thick	ation iness	Jacket T	hickness	Nomin	al OD
ran Nu.	Cond.	Ft.	m	Genuer	Type	U)UL UEU (etranding)		Drain Wire	Inch	mm	Inch	mm	Inch	mm
9-Position	Shie	lded D-	Sub • S	traight Handle	Both Ends	• For RS-449 a	application	ıs						
Foil Shie	ld (Ge	neral Pu	rpose) •	Semi-rigid	PVC Insul	ation • Chro	me PVC	Jacket						
49900A	9	5	1.5	Male/Male	NEC:	24	Overall	24 (7x32)	.010	.25	.032	.81	.244	6.20

Foil

(7x32)

Tinned Copper

CM



Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors. 300V 80°C, UL AWM Style 2464

[.61]

Contact View

Contact View

15-Position Shielded D-Sub • Straight Handle Both Ends • For any 15-pin application exposed to high-noise environment

Foil Shield (General Purpose) • Semi-rigid PVC Insulation • Chrome PVC Jacket NEC: 49721A Overall 24 (7x32) 15 10 3.0 Male/Male 24 .25 .032 .81 .284 7.21 CM (7x32)Foil 49725A 5 15 1.5 Male/Female **Tinned Copper** 49726A 15 10 3.0 Male/Female [.61] Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors. 300V 80°C, UL AWM Style 2464 ******** Contact View Contact View

Foil plu	s Braid	Shield	(Super	Shield) • Ser	mi-rigid	PVC Insulation	• Chron	ne PVC	Jacket
49740A	15	5	1.5	Male/Male	NEC:	24	Overall	None	.010
49745A	15	5	1.5	Male/Female	CM	(7x32)	Foil + 65%		
49746A	15	10	3.0	Male/Female		Tinned Copper [.61]	+ 65% Braid		
49747A	15	25	7.6	Male/Female		راجه ا			
	10001								

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464

NEC: CM	24 (7x32) Tinned Copper [.61]	Overall Foil + 65% Braid	None	.010	.25	.035	.89	.300	7.62
	Contact View						Contac	ct View	



D-Subminiature Assembly

Shielded 25-Position

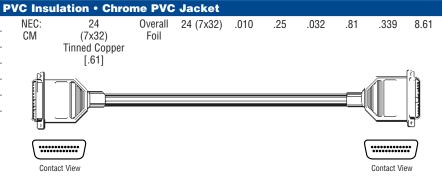
Part No	No.	Standar	d Lengths	Gender	UL NEC/ (C)UL CEC	Conductors AWG	Shi	eld		ation (ness	Jacket T	hickness	Nomin	al OD
Part NU	of Cond.	Ft.	m	Genuer	Type	(stranding) [Dia.in mm]	Туре	Drain Wire	Inch	mm	Inch	mm	Inch	mm

25-Position Shielded D-Sub • Straight Handle Both Ends • For RS-232 applications

Foil Shi	eld (Ger	neral Pu	rpose) •	Semi-rigid
49668A	25	5	1.5	Male/Male
49669A	25	10	3.0	Male/Male
49673A	25	5	1.5	Male/Female
49674A	25	10	3.0	Male/Female
49675A	25	25	7.6	Male/Female
49676A	25	50	15.2	Male/Female

Molded handles are 100% shielded to guard against EMI/RFI where indicated. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

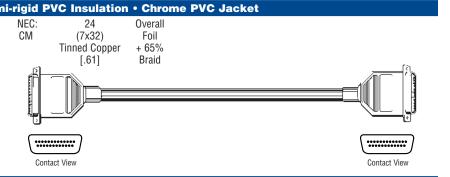
300V 80°C, UL AWM Style 2464



Foil plus	Braid	Shield	(Super	Shield) • Sen
49615A	25	5	1.5	Male/Female
49616A	25	10	3.0	Male/Female
49617A	25	25	7.6	Male/Female
Molded handles a				

Molded handles are 100% shielded to guard against EMI/RFI where indicated. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464





D-Subminiature Assembly

Unshielded 25-Position, Shielded 37-Position and 50-Position

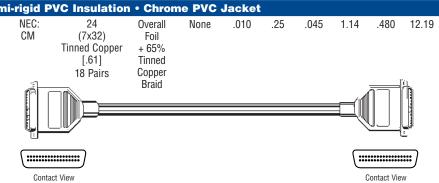
Part No.	No.	Standard	l Lengths	Gender	UL NEC/ (C)UL CEC	Conductors AWG	Shi	eld		ation kness	Jacket T	hickness	Nomir	nal OD
Part NU.	of Cond.	Ft.	m	Genuer	Type	(stranding) [Dia.in mm]	Туре	Drain Wire	Inch	mm	Inch	mm	Inch	mm

37-Position Shielded D-Sub • Straight Handle Both Ends • For RS-449 applications where assembly is exposed to high noise environment

Foil plus	Braid	Shield	(Super	Shield) • Sen
49950A	36	5	1.5	Male/Male
49951A	36	10	3.0	Male/Male
49952A	36	25	7.6	Male/Male
49955A	36	5	1.5	Male/Female
49956A	36	10	3.0	Male/Female
49957A	36	25	7.6	Male/Female
Matter	10001			

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell and pin #1. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



50-Position Shielded D-Sub • Straight Handle Both Ends • For high-density applications where assembly is exposed to high noise environment

Foil plus	Braid	Shield	(Gener	al Purpose) •	Polyethy	lene Insulatio	n • Chr	ome PVC	Jacke	et				
49760A	50	5	1.5	Male/Male	NEC:	26	Overall	22 (7x30)	.010	.25	.049	1.24	.535	13.59
49761A	50	10	3.0	Male/Male	CM	(7x34)	Foil							
49765A	50	5	1.5	Male/Female		Tinned Copper [.48]	+ 91% Tinned							
49766A	50	10	3.0	Male/Female		25 Pairs	Copper							
Molded handles assist in FCC con connectors have connection. Wiri Jack screw reter 30V 80°C, UL	mpliance. Al e detents to a ing is point-i ntion on botl	I connectors allow for a po to-point with h connectors.	are tin-plat sitive shiel shield to c	ed and male d to ground	1000		Braid							
						••••••••						\ •••		•• /
					Conta	ct View						(Contact Viev	N

SCSI Cable Assembly

SCSI-1 and SCSI-2

Shielded Straight and Right-Angled Handles

Dord No.	No.	Standard	d Lengths	Condon	UL NEC/	Conductors AWG	Shi	eld		ation (ness	Jacket T	hickness	Nomir	nal OD
Part No.	of Cond.	Ft.	m	Gender	(C)UL CEC Type	(stranding) [Dia.in mm]	Туре	Drain Wire	Inch	mm	Inch	mm	Inch	mm

SCSI-1 Assemblies (26 AWG) • Shielded Straight Handles • For SCSI (Small Computer Systems Interface) applications

Foil plus Braid Shield (Super Shield	• Polyethylene	e Insulation •	Chrome	PVC Ja	cket					
49802A 50 16.4 5 Male	/Male NEC:	26	Overall	22	.01	.254	.049	1.245	.535	13.589
Molded handles are 100% shielded to guard against EMI/RFI assist in FCC compliance. These assemblies have tin-plated cond can be used in single-ended or differential configurations per SCSI standard. 30V 80°C, UL AWM Style 2919	nnectors	(7x34) Tinned Copper [.48] 25 Pairs	Foil + 90% Braid	(7x30) TC						





GPIB (General Purpose Interface Bus) Assembly

Unshielded and Shielded Connectors

Part No.	No.	Standard	l Lengths	Gender	UL NEC/ (C)UL CEC	Conductors	Shi	eld		ation mess	Jacket T	hickness	Nomir	nal OD
rait Nu.	Cond.	Ft.	m	Genuer	Type	AWG (stranding)	Туре	Drain Wire	Inch	mm	Inch	mm	Inch	mm

Unshielded GPIB • Molded PVC Connector • For use with electronic equipment that is IEEE-488 compatible

Foil plus	Braid	Shield	(Super	Shield) • Sem	i-rigid F	PVC Insulation	• Gull	Gray PVC	Jacke	t
49642	23	3.3	1	Male/Female Each End	NEC: CM	6 Pairs: 26 (7x34) TC	Overall Foil	26 (7x34)	.010	
49643	23	6.6	2	Male/Female Each End		10 Singles: 26 (7x34) TC	+ 90% Braid			
49645	23	26.2	8	Male/Female Each End		1 Single: 24 (7x32) TC				

300V 80°C, UL AWM Style 2464

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.25

.035

.350

Contact View

8.89

Shielded GPIB • Die Cast Connector • For use with electronic equipment that is IEEE-488 compatible

Foil plu	s Braid	Shield	I (Supe	r Shield) • Sem	i-rigid P	/C Insulation	• Gull	Gray PVC	Jack	et				
49635	23	3.3	1	Male/Female Each End	NEC: CM	6 Pairs: 26 (7x34) TC	Overall Foil	26 (7x34)	.010	.25	.035	.89	.350	8.89
49636	23	6.6	2	Male/Female Each End		10 Singles: 26 (7x34) TC	+ 90% Braid							
49637	23	9.8	3	Male/Female Each End		1 Single: 24 (7x32) TC								
Die cast conne with molded-ir			n for easy	stacking and comes	<u></u>									
300V 80°C,	UL AWM St	tyle 2464			6						(<u> </u>	
					6									
					6							18		

Shielded GPIB • Molded PVC Connector • For use with electronic equipment that is IEEE-488 compatible

49733	23	1.6	.5	Male/Female Each End	NEC: CM	6 Pairs: 26 (7x34) TC	Overall Foil	26 (7x34)	.010	.25	.035	.89	.350	8.89
49734	23	3.3	1	Male/Female Each End		10 Singles: 26 (7x34) TC	+ 90% Braid							
49735	23	6.6	2	Male/Female Each End		1 Single: 24 (7x32) TC								
49736	23	9.8	3	Male/Female Each End	Ċ									
49737	23	13.1	4	Male/Female Each End	•							- -		
Molded conne with molded-in 300V 80°C,	metric jack	screws.	n for easy st	acking and comes	¢	Contact View						Cont	act View	

TC = Tinned Copper

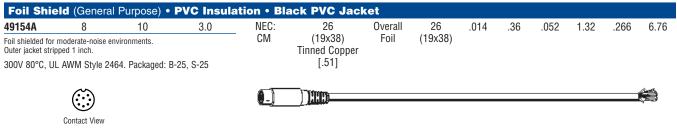


DIN* Cable Assembly

Shielded 3-Position, 5-Position and 8-Position

Doub No.	No.	Standard	Lengths	UL NEC/	Conductors AWG	Shi	ield	Insul Thick		Jacket T	hickness	Nomir	nal OD
Part No.	of Cond.	Ft.	m	(C)UL CEC Type	(stranding) [Dia.in mm]	Туре	Drain Wire	Inch	mm	Inch	mm	Inch	mm
5-Position	Shielded	d DIN • Straig	ght Handle Or	e End • Use	ed where a shield	ded condu	ctor is desi	red and	as a lo	w cost a	Iternativ	e to a D	-Sub
Foil Shie	ld (Genera	al Purpose) •	PVC Insula	tion • Bla	ck PVC Jack	cet							
49152A Foil shielded for n Outer jacket stripp 300V 80°C, UL	oed 1 inch.	10 environments. 2464. Packaged: E	3.0 3-25, S-25	NEC: CM	26 (19x38) Tinned Copper [.51]	Overall Foil	26 (19x38)	.014	.36	.053	1.35	.251	6.38
	Contact View]][[][]								
Foil plus	Braid Sh	nield (Super	Shield) • PV	C Insulation	on • Black P	VC Jack	et						
Outer jacket stripp	oed 1 inch.	10 noise environments. 1464. Packaged: E	3.0 3-25, S-25	NEC: CM	26 (19x38) Tinned Copper [.51]	Overall Foil + 90% Tinned Copper Braid	26 (19x38)	.014	.36	.037	.94	.231	5.87
	Contact View				Lind								

8-Position Shielded DIN • Straight Handle One End • Used where a shielded conductor is desired and as a low cost alternative to a D-Sub



^{*}DIN Standard (Deutsche Industries Norm)



DIN* Cable Assembly

Shielded 5-Position and 8-Position Retractile

Dart	No.		Length	of Body			Length	of Tail		Conductors AWG	5	Shield		ation mess	Jac Thick		Nomir	nal OD
No of	of	Retra	acted	Exte	nded	Connec	tor End	Othe	r End	(stranding)		Drain						
	Cond.	Inch	mm	Inch	mm	Inch	mm	Inch	mm	[Dia. in mm]	Туре	Wire	Inch	mm	Inch	mm	Inch	mm

5-Position Shielded DIN • Straight Handle • Standard friction-fit connectors mate easily with many microcomputer keyboard ports

Foil plus Serve Shield (Super Shield) • Retractile • PVC Insulation • Black PVC Jacket

1103A 5 14.5 368.3 72.5 1841.5 12 304.8 18 457.20 26 Foil 26 (19x38) .014 .36 .058 1.47 .260 6.60 (19x38) 457.20 26 (19x38) 45%

Shielded connectors maintain shield integrity and assist in FCC compliance. Utilizes 26 AWG conductor for low voltage drop. Ideal for higher noise situations.

300V 80°C, UL AWM Style 2464. Packaged: S-25

(19x38) + 95% Tinned Copper Serve [.51]



DIN Pin Configurations • Face Views



Contact View















^{**}Available by special order

Modular Keyboard Assemblies

4-Position, 6-Position and 8-Position with Retractile Cables Unshielded or Shielded Modular Plugs

Part	Part No				of Cord			Conductors AWG	8	Shield		ation mess		ket ness	Nomir	nal OD
	of Cond.	Body Ro	etracted mm	Body Ex Inch	ctended mm	Tail L Inch	ength mm	(stranding) [Dia.in mm]	Туре	Drain Wire	Inch	mm	Inch	mm	Inch	mm

4-Position Modular Plugs • Used to rapidly interconnect electronic computers and business machines

Unshi	elded ((General F	Purpose)	• Retr	actile •	Polypr	opylene	Insulation	• Blac	k or CR	Γ White	Poly	ureth	ane J	acket	:
49440	4	15	381	67.5	1714.50	1	25.40	26	None	None	.006	.15	.030	.76	.093	2.36
Positive lock	ing latch prev	ents connect	or from vibrat	ing loose. F	Polarized			(19x38)							Χ	Χ
connector pr	events impro	per insertion.	. No tools requ	uired for ins	tallation.		-	Tinned Copper							.198	5.03
30V 60°C,	UL AWM S	tyle 20197.	Packaged:	B-25, S-2	5			[.51]								

6-Position Modular Plugs • Used to rapidly interconnect electronic computers and business machines

Unshi	elded (C	General F	Purpose)	• Retr	actile •	Polypi	ropylene	Insulation	• Blac	k Polyu	rethand	e Jac	ket			
49441	6	15	381	67.5	1714.50	1	25.40	26	None	None	.006	.15	.030	.76	.093	2.36
Positive lock	ing latch prev	ents connecto	or from vibrat	ing loose. F	Polarized			(19x38)							Χ	Х
connector pr	events impro	per insertion.	No tools requ	ired for ins	stallation.			Tinned Copper							.258	6.55
30V 60°C,	UL AWM S	tyle 20197.	Packaged:	B-25, S-2	5			[.51]								

8-Position Modular Plugs • Used to rapidly interconnect electronic computers and business machines

					- 1 - 7											
Unsi	nielded	(General	Purpose)	• Retr	actile •	Polypr	opylene	Insulation	• Black	or CRT	White	Poly	/ureth	ane J	Jacket	1
49442	8	15	381	67.5	1714.50	1	25.40	26	None	None	.006	.15	.030	.76	.100	2.54
			ctor from vibra					(19x38)							Х	Χ
	•		n. No tools red					Finned Copper							.314	7.98
30V 60°	C, UL AWIV	1 Style 2019	7. Packaged:	B-25, S-2	25			[.51]								
Foil	Shield*	• Retra	ctile • P	olypro	pylene	Insulat	ion • Bla	ack Polyure	thane	Jacket						
49402	7	15	381	67.5	1714.50	1	25.40	26	Foil 2	6 (19x38)	.006	.15	.030	.76	.100	2.54

 49402
 7
 15
 381
 67.5
 1714.50
 1
 25.40
 26
 Foil
 26 (19x38)
 .006
 .15
 .030
 .76
 .100
 2.54

 Positive locking latch prevents connector from vibrating loose. Polarized connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. A longitudinal aluminum/polyester shield protects against ESD and EMI.
 Tinned Copper [.51]
 3.314
 7.98

 30V 60°C, UL AWM Style 20197. Packaged: S-25
 S-25





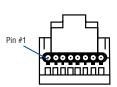


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Contact View

Modular Plug Wiring Schemes

Cross wiring is standard on non-shielded constructions	Straight wiring is standard on shielded constructions
14	11
23	22
32	33
41	44



^{*}In shielded versions, the drain wire is always the highest numbered position in the connector.



Contact View

Parallel Interface Assembly

Part No.	No.	Standar	d Lengths	Condor	UL NEC/ (C)UL CEC	Conductors AWG	Shi	eld		ation iness	Jacket T	hickness	Nomin	nal OD
Part No.	of Cond.	Ft.	m	Gender	Type	(stranding) [Dia.in mm]	Туре	Drain Wire	Inch	mm	Inch	mm	Inch	mm

Parallel Interface Assemblies • Centronics/D-Sub Connectors • For computer-printer parallel interface

Contact View

		, , ,												
Shielded	• Foil	plus B	raid SI	hield (Super S	Shield) • \$	Semi-rigid PV0	Insulat	ion • Cl	hrome	PVC J	acket			
49502A	25	10	3.0	Male/Male	NEC:	24	Overall	None	.010	.25	.040	1.02	.370	9.40
Universal 36-position ribbon connector (Centronics compatible) on one end and a 25-position D-Subminiature connector (IBM PC and PC-XT compatible) on the other. Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance.					CM (7x32) Tinned Copper [.61]	Foil + 65% Tinned Copper								
300V 80°C, UL AWM Style 2464						Braid							Amum muor ramm	