# Accessories

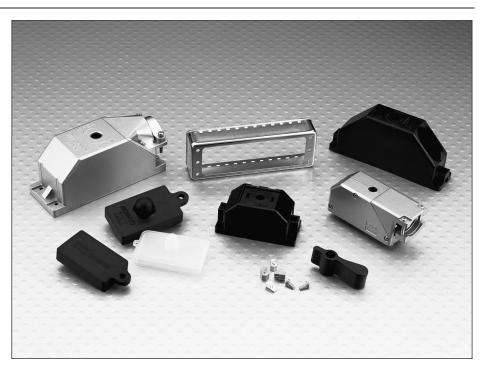
### Accessories

annon offers a wide selection of accessories that allow the design engineers to configure the product for their exacting needs. The accessories range from the simple actuating handle to junction and backshells, as well as polarizing posts and protective covers for the contacts.

Actuating handles are the same for the DL1/2/3 and DLM1/2/3 series. The DL5/DLM5 and DLM6 series have specific handles. Handles are sold separately since many applications require the connector to be attached or removed only by an authorized technician.

**Plastic junction shells** are available for the DL1/2/3 series for encasement of the crimp contacts after complete installation into the connector. These shells also make it possible for the DL to be used as a cable-to-cable mating connector as they can be used both on the plug and the receptacle. The DL1/2/3 plastic junction shells have optional secondary cable entry capability by removing the molded in cable entry plugs. Cable clamp kits are available to affix the cable to the second entry. This second entry option is very useful in applications where the large wire sizes make the cable diameter too large to be handled from a single entry port.

**Metal Backshells** are available for the entire DL/DLM series. The metal backshells are constructed from die cast aluminum with a nickel plating to facilitate in EMI/RFI shielding of the connector system. Shielding has become a driving force because of ever increasing stringent EMI/RFI regulations.



**Polarizing posts** are available to offer a keying feature for both the DL and DLM connectors. The polarizing posts can be installed in specific orientation so that plugs of the same size connectors can only be mated in predetermined receptacles. This feature offers the designer the ability to fool-proof the attachment possibilities to protect accidental damage to the system.

**Protective covers** of plastic and anti-static rubber are available to offer contact protection from physical damage or dust. Since the DL series has a high density of contacts in an exposed area, these covers are very useful for many applications. For example: where systems have multiple connectors; when the connections are often left unattached; or when the system parts are put into storage.

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# **Accessories Selection Guide**

	Actuating		ective vers	Metal Shell EMI/RFI	Plastic Junction	Cable	Metal	Polarizing
Connector Series	Handles see page 47	Rubber see page 47	Plastic see page 47	Shielding see page 49	Shell see page 46	Clamps see page 46	Backshell see pages 44-45	Posts see page 48
DL1-156	•	•	•	-	•	•	•	•
DL2-96	•	•	•	-	•	•	•	•
DL3-60	•	•	•	-	•	•	•	•
DL4-624	-	•	-	-	-	-	-	-
DL4-1248	-	•	-	-	-	-	-	-
DL4-2496	-	•	-	-	-	-	-	-
DL5-260	•	-	-	•	-	-	•	•
DLM1-156	•	•	•	-	•	•	•	•
DLM2-96	•	•	•	-	•	•	•	•
DLM3-60	•	•	•	-	•	•	•	•
DLM5-260	٠	-	-	-	-	-	٠	٠
DLM6-360	•	-	-	-	-	-	٠	•
DLD1-156	-	-	-	-	-	-	-	-
DLD2-96	-	-	-	-	-	-	-	-

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-Not Compatible



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# Accessories

28,1 (1.11)

> 28,1 (1.11)

# Metal Backshell



- DL1, DLM1 is a two piece shell design.Kit consists of 2 shells, 10 screws,
- 1 wire hood, 1 wire clamp, 1 lock/open indication seal.

# **Materials and Finishes**

Shell:	Nickel over die cast aluminum	Used On	Part Number	Mounting	Max Cable Entry
Hardware:	Stainless Steel	DL1, DLM1	249-4516-000	Straight or 90°	19,05 (.750)

48,6 (1.91)  $\oplus$ 

123,4 (4.86)-

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<u>ፍ</u> 111,4 (4.38)-

77,8 (3.06) -

36,3 (1.43)

36,3 (1.43)

 $\triangle$  Wire hood may be installed in two positions. 90° cable entry as shown or straight entry by rotating wire hood.

24,5 (.96)

 $\triangle$  Wire hood may be installed in two positions. 90° cable entry as shown or straight entry by rotating wire hood.

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24,5 (.96)

# DL2, DLM2

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- DL2, DLM2 is a two piece shell design.
- Kit consists of 2 shells, 9 screws, 1 wire hood, 1 wire clamp, 1 lock/open indication seal.

### **Materials and Finishes**

Shell:	Nickel over die cast aluminum	Used On	Part Number	Mounting	Max Cable Entry
Hardware:	Stainless Steel	DL2, DLM2	249-4517-000	Straight or 90°	19,05 (.750)

65,8 (2.59)-

33,0 (1.30)

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# DL3, DLM3

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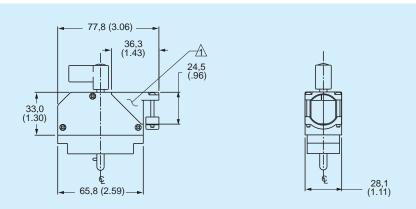


- DL3, DLM3 is a two piece shell design.
- Kit consists of 2 shells, 9 screws, 1 wire hood, 1 wire clamp, 1 lock/open indication seal.

### **Materials and Finishes**

Shell:	Nickel over die cast aluminum
Hardware:	Stainless Steel

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 $\triangle$  Wire hood may be installed in two positions. 90° cable entry as shown or straight entry by rotating wire hood.

-	Used On	Part Number	Mounting	Max Cable Entry
	DL3, DLM3	249-4518-000	Straight or 90°	19,05 (.750)

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# Metal Backshell

## DL5, DLM5



- DL5, DLM5 is a one piece shell design.
- Kit consists of 1 shell, 8 screws, 1 wire hood, 1 wire clamp, 4 nuts.

### Materials and Finishes

Shell:	Nickel over die cast aluminum	Used On	Part Number	Mounting	Max Cable Entry
Hardware:	Stainless Steel	DL5, DLM5	249-4501-000	Straight or 90°	22,23 (.875)

115,8 (4.56)

49,0 (1.93)  $\oplus$ 

## DLM6

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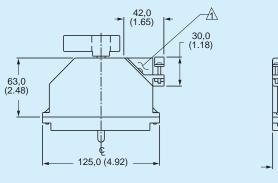
- DLM6 is a one piece shell design.
- Kit consists of 1 shell, 8 screws, 1 wire hood, 1 wire clamp, 4 nuts.

### Materials and Finishes

Shell:	Nickel over die cast aluminum	Used On	Part Number	Mounting	Max Cable Entry
Hardware:	Stainless Steel	DLM6	249-4515-000	Straight or 90°	28,00 (1.102)

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42,0 (1.65)

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 $\triangle$  Wire hood may be installed in two positions. 90° cable entry as shown or straight entry by rotating wire hood.

30,0 (1.18)

> 7,6 (.30)

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42,6 (1.68) 42,6 (1.68)

 $\triangle$  Wire hood may be installed in two positions. 90° cable entry as shown or straight entry by rotating wire hood.

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#### Plastic Junction Shell Kits DL1, DL2, DL3 DL1-J/S DL2-J/S DL3-J/S 100 **DL1** – Dimensions **DL2** – Dimensions **DL3** – Dimensions \*CABLE CLAMP IN VERTICAL WIRE EXIT POSITION—EITHER END \* CABLE CLAMP IN VERTICAL WIRE EXIT POSITION—EITHER END \*CABLE CLAMP IN VERTICAL WIRE-EXIT POSITION-EITHER END \*CABLE CLAMP IN HORIZONTAL WIRE EXIT POSITION—EITHER END 39,29 (1.547) 36,45 (1.435) MAX ++ MAX + CABLE CLAMP IN HORIZONTAL WIRE EXIT POSITION—EITHER END \* CABLE CLAMP IN HORIZONTAL WIRE XIT POSITION — EITHER END 24,13 (.950) MAX 63,50 (2.500) MAX + 43,94(1.730) REF 39,29 (1.547) 36,45 (1.435) 24,1 (.950 MAX 30,05 (1.183)-REF 30,05 (1.183) REF + t 71,04 (2.797) MAX 71,04 (2.797) MAX 86,36 (3.400) MAX à d 44,04 (1.734) REF C) 50,44 (1.986) REF 44.04 (1.734) REF 46,81 (1.843) MAX 46,81 (1.843 MAX 2,36 (2.455) MAX + 7 68,58 (2.700) MAX 52,45 (2.065) MAX 52,45 (2.065) MAX 27,69 (1.090) MAX 110,74 (4.360) MAX -68,83 (2.710) MAX 31,75 (1.250) MAX -68,83 (2.710) MAX-27,94 (1.100) MAX Note: DL1 shell is single piece. Note: DL2 is two piece shell. Note: DL3 is two piece shell. • Stainless steel cable clamps. • Accommodates up to 22,22 (.875) cable. • Knockout plug provides alternate second entry. • Thermoplastic UL 94V-1 rated. For use with crimp contact connectors. • Complete with 4 attaching screws and nuts. • Straight, 90° or 45° cable entry. • Complete with one cable clamp kit. **Junction Shell Kit** Accessories Max. Cable Used On J/S Kit Part Number Mounting Entry DL1, DLM1 DL1-J/S 249-1950-000 Straight or 90° 22,23 (.875) Straight or 90° DL2, DLM2 DL2-J/S 249-1985-000 14,20 (.560) DL2, DLM2 DL2-2-J/S 249-2238-000 Straight or 90° 15,90 (.625) DL2, DLM2 22,23 (.875) DL2-4-J/S 249-2238-001 Straight or 90° DL2-1-J/S DL2, DLM2 249-1985-001 15,90 (.625) 45° DL3, DLM3 DL3-J/S 249-2060-000 Straight or 90° 14,20 (.560) DL3, DLM3 DL3-3-J/S 249-2237-000 Straight or 90° 15,90 (.625) DL3, DLM3 DL3-4-J/S 249-2237-001 Straight or 90° 22,23 (.875) DL3, DLM3 DL3-2-J/S 249-2060-001 45° 15,90 (.625) Cable Clamp Kit (For optional second entry) Max. Cable C/C Kit Used On Part Number Mounting Entry DL1-C/C 218-0179-000 DL1 Straight or 90° 22,23 (.875) DL2, DL3 DL2-C/C 218-0180-000 Straight or 90° 14,20 (.560) DL2, DL3 DL2-1-C/C 218-0181-000 15,90 (.625) 45° DL2, DL3 DL2-2-C/C 218-0181-001 Straight or 90° 15,90 (.625) DL2, DL3 DL2-3-C/C 218-0200-000 Straight or 90° 22,23 (.875)

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Dimensions are shown in mm (inch) Dimensions subject to change



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DL1/2/3 & DLM1/2/3	DL5, DLM5		DLM6	
<ul> <li>Provides a convenient method of actuating the contacts and cam for locking the connector.</li> </ul>	Handle Material: Glass	s-filled thermoplastic	Handle for: DL1/2/3, DLM1/2/3	Part Number 204-0016-000
<ul> <li>Kit provides actuating handle and attaching screw.</li> </ul>			DL5, DLM5 DLM6	204-4501-000 204-4500-000 204-4500-000
<ul> <li>Pointer on handle denotes "locked" and "open" positions.</li> </ul>				
Protective Covers				
Protective Covers – Rubber	DL, DLM Plug		DL, DLM Receptacle	
<ul> <li>Fits snugly over mating faces.</li> </ul>				
<ul> <li>Prevents foreign matter from permeating contact cavities.</li> </ul>	Contraction of the second seco		I TTTT CA	MONDIN
Material: Anti-static synthetic rubber – ASTM2BC520A14B14Z1.				
	Description	Part Number	Description	Part Number
	DL1-156P	039-0242-000	DL1-156R	039-0243-000
	DL2-96P	039-0244-000	DL2-96R	039-0245-000
	DL3-60P DL4-624P	039-0246-000 039-0239-000	DL3-60R DL4-624R	039-0247-000 039-0240-000
	DL4-1248P	039-0235-000		039-0236-000
	DL4-2496P	039-0237-000	DL4-2496R	039-0238-000
Protective Covers – Plastic	DL, DLM Plug			
<ul> <li>Fits snugly over mating faces.</li> </ul>				
<ul> <li>Prevents foreign matter from permeating</li> </ul>				
contact cavities.				
Material: Polyethylene.				
	Description	Dort Number	_	
	Description DL1-156P	Part Number 025-0852-000	_	
	DL2-96P	025-0857-000	_	
	DL3-60P	025-0850-000	_	
			—	

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# **Polarizing Posts**

## Corner Mounting\* for DL1/2/3, DLM6



Kit Number: 320-0021-006

## Corner Mounting\* for DL5, DLM5



Kit Number: 320-4502-000

### Center Mounting for DL1/2, DLM1/2



Kit Number: 320-0021-005

### Corner Mounting\* for DLM1/2/3



Accessories

### **Recommended Key Nomenclature**

- Polarizing posts are a customer installed option.
- Recommended key nomenclature can be used for simple, opposite corner polarization.
- It is recommended that customers use their own configuration drawings.

#### Example:

DL1-156RW4B32C describes a Size 1 receptacle connector with 156 front insertable/removable square post  $50\mu$  in. gold contacts with polarization position 3 at location A and position 2 at location B. ( $C \Rightarrow$  corner polarization). Receptacle DL1-156RW4B32C would mate with plug DL1-156PW4A32C

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- Kit contains 2 posts and 2 No. 4-40x9/32 pan head screws.
- Order 1 kit per connector.

Description	Material	Finish/Treatment	
Post	Zinc	Yellow chromate over cadmium	
Screw	Stainless Steel	Passivated	

- Kit contains 4 posts and 4 M3x8 screws.
- Order 1 kit per connector.

Description	Material	Finish/Treatment	
Post	Zinc	Nickel	
Screw	Stainless Steel	Passivated	

- Kit contains 2 posts and 2 No. 2-56x3/16 fil. head screws.
- Order 1 kit per connector.

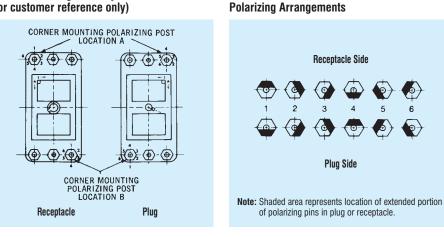
Description	Material	Finish/Treatment
Post	Zinc	Clear chromate over cadmium
Screw	Steel	Clear chromate over cadmium

- Kit contains 4 posts and 4 M2.5x12 screws.
- Order 1 kit per connector.
- For metal backshells.

Description	Material	Finish/Treatment	
Post	Zinc	Nickel	
Screw	Stainless Steel	Passivated	

**Reference views for** 

#### **Corner Polarizing Post Layouts** (for customer reference only)



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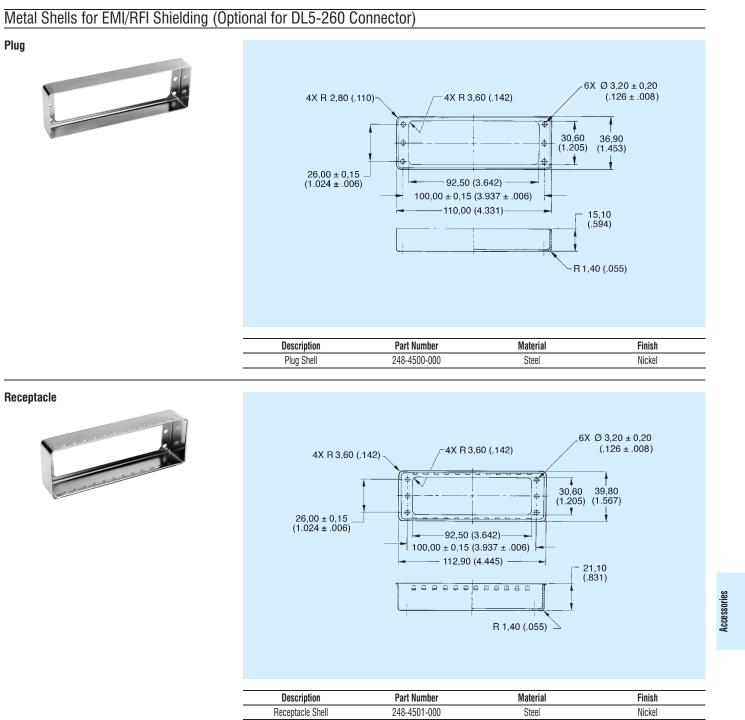






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