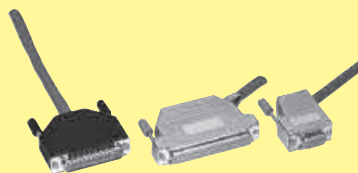


D-Sub – Housing range for subminiature D connectors

Page

General information – hoods for screw locking **07.02**

Thermoplastic top and side entry hoods
with knurled screws

**07.04**

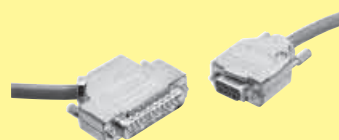
Thermoplastic side entry hoods
with knurled screws

**07.05**

Thermoplastic top entry hoods
with knurled or locking screws

**07.06**

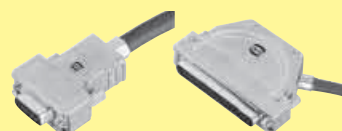
Full metal top and side entry hoods
with knurled screws

**07.07**

Full metal top and side entry hoods with short screws ...

**07.08**

Full metal top and side entry hoods
with different screw options

**07.09**

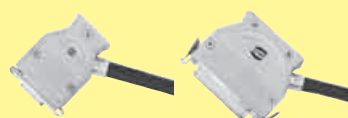
General information – hoods for spring or slide locking

07.10

Thermoplastic top and side entry hoods
for spring or slide locking

**07.11**

Full metal top and side entry hoods
for spring or slide locking

**07.12**

HARTING – Guarantee a secure connection

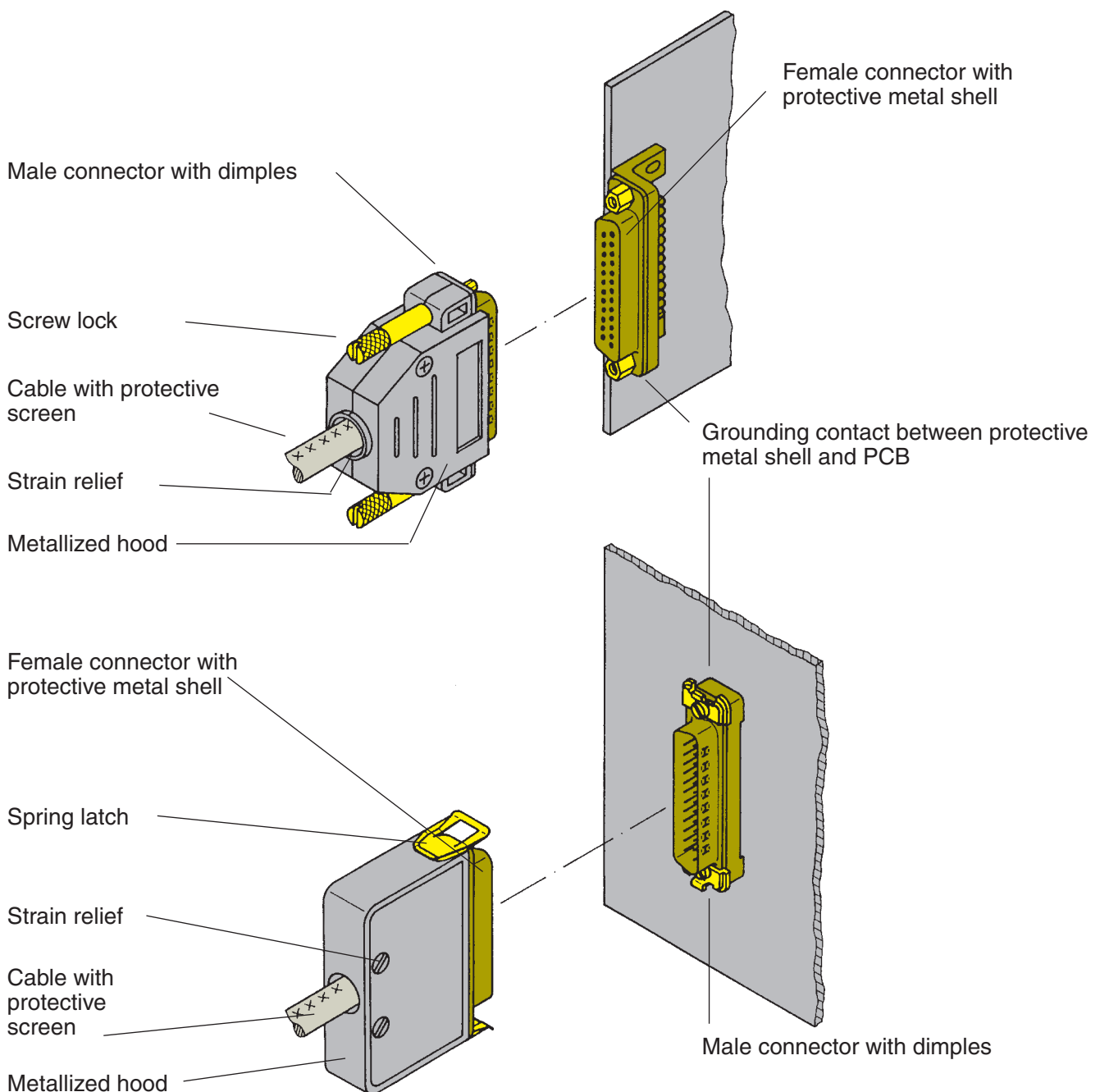
Modern electronic applications demand a high degree of mechanical and electrical security.

To meet these requirements, continuous screening from the cable to the PCB via the connector is achieved by using state of the art components to DIN 41 652.

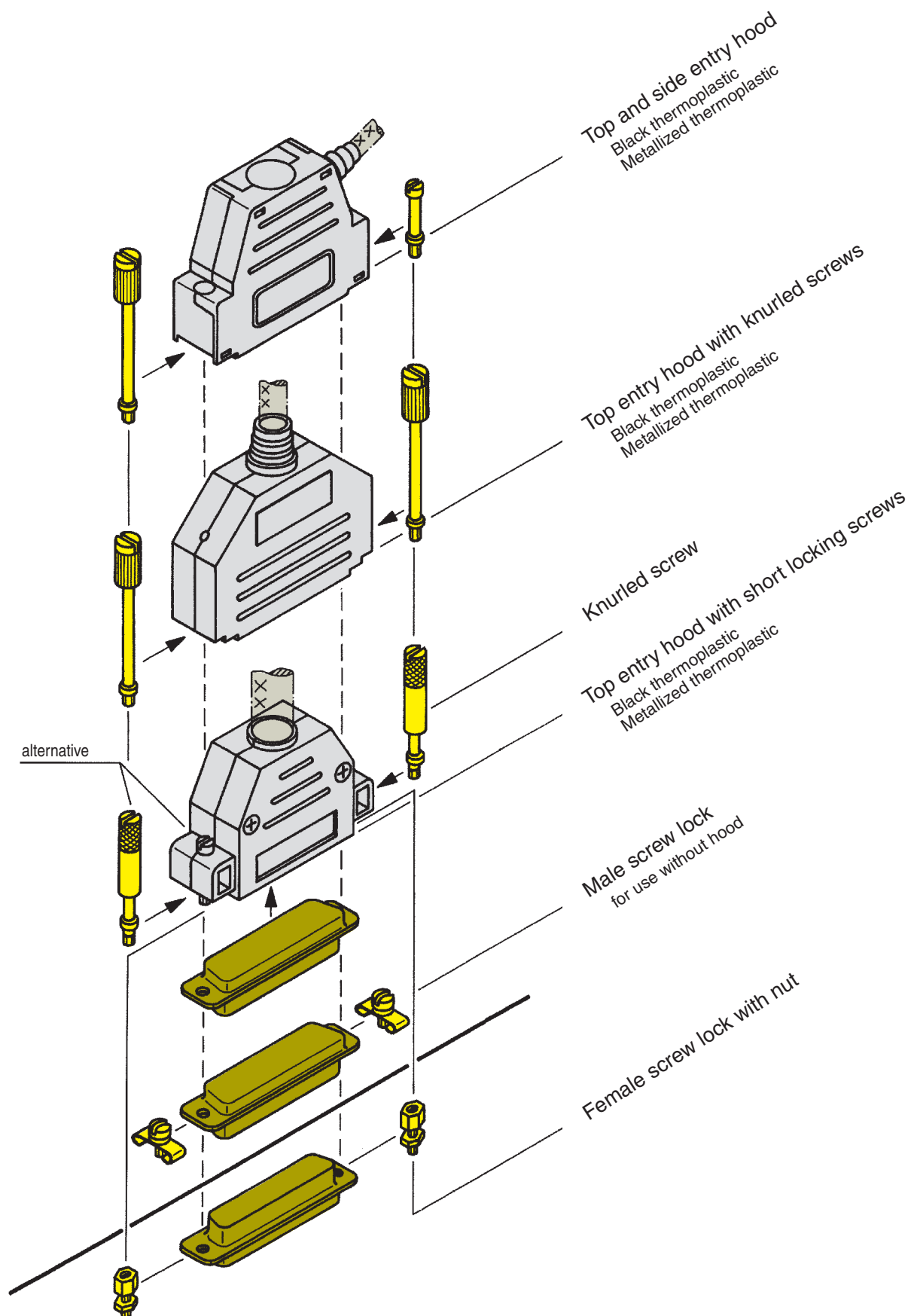
HARTING offer many solutions. These utilise various combinations of male and female connectors with hoods, featuring either screw locking or latching facilities.

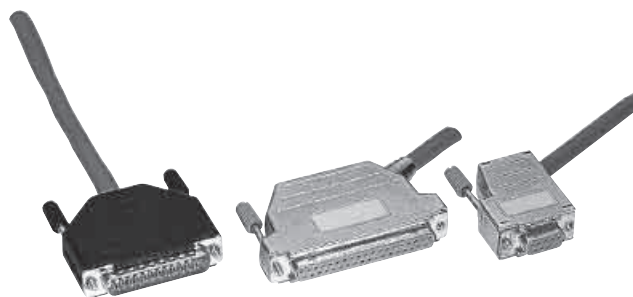
Only 2 examples are shown:

- Continuous security screening and grounding with screw locking and metallized hood.
- Continuous grounding and vibration proof latching system with metallized hood.



Connector hoods for screw locking

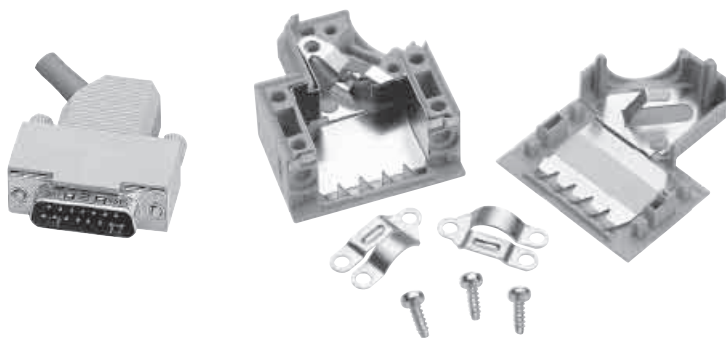




Top and side entry hoods with knurled screws

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm																																																
Top entry hood Black thermoplastic	9 15 25 37 50	09 67 009 0424 09 67 015 0424 09 67 025 0424 09 67 037 0424 09 67 050 0424	<table><tr><td></td><td>A1</td><td>A2</td><td>B</td><td>C1</td><td>C2</td><td>max. Ø 1</td><td>max. Ø 2</td></tr><tr><td>9</td><td>31.5</td><td>32.5</td><td>15</td><td>34</td><td>38</td><td>8.0</td><td>11.5</td></tr><tr><td>15</td><td>40.0</td><td>41.0</td><td>15</td><td>34</td><td>38</td><td>11.5</td><td>11.5</td></tr><tr><td>25</td><td>53.5</td><td>54.5</td><td>15</td><td>40</td><td>40</td><td>11.5</td><td>11.5</td></tr><tr><td>37</td><td>71.0</td><td>71.0</td><td>15</td><td>40</td><td>40</td><td>11.5</td><td>11.5</td></tr><tr><td>50</td><td>67.5</td><td></td><td>19</td><td>40</td><td></td><td>14.0</td><td></td></tr></table> C1: non-metallized C2: metallized		A1	A2	B	C1	C2	max. Ø 1	max. Ø 2	9	31.5	32.5	15	34	38	8.0	11.5	15	40.0	41.0	15	34	38	11.5	11.5	25	53.5	54.5	15	40	40	11.5	11.5	37	71.0	71.0	15	40	40	11.5	11.5	50	67.5		19	40		14.0		
	A1	A2	B	C1	C2	max. Ø 1	max. Ø 2																																													
9	31.5	32.5	15	34	38	8.0	11.5																																													
15	40.0	41.0	15	34	38	11.5	11.5																																													
25	53.5	54.5	15	40	40	11.5	11.5																																													
37	71.0	71.0	15	40	40	11.5	11.5																																													
50	67.5		19	40		14.0																																														
Top entry hood Metallized thermoplastic	9 15 25 37	09 67 009 0425 09 67 015 0425 09 67 025 0425 09 67 037 0425	Cut appropriate cable entry to fit actual cable diameter																																																	
Top and side entry hood Black thermoplastic	9 15 25 37	09 67 009 0434 09 67 015 0434 09 67 025 0434 09 67 037 0434 ¹⁾	<table><tr><td></td><td>A</td><td>B</td><td>C</td></tr><tr><td>9</td><td>31.5</td><td>15</td><td>40.0</td></tr><tr><td>15</td><td>40.0</td><td>15</td><td>40.0</td></tr><tr><td>25</td><td>53.5</td><td>15</td><td>43.0</td></tr><tr><td>37</td><td>71.3</td><td>15</td><td>42.5</td></tr></table>		A	B	C	9	31.5	15	40.0	15	40.0	15	40.0	25	53.5	15	43.0	37	71.3	15	42.5																													
	A	B	C																																																	
9	31.5	15	40.0																																																	
15	40.0	15	40.0																																																	
25	53.5	15	43.0																																																	
37	71.3	15	42.5																																																	
Top and side entry hood Metallized thermoplastic	9 15 25 37	09 67 009 0435 09 67 015 0435 ²⁾ 09 67 025 0435 ²⁾ 09 67 037 0435 ¹⁾	Cut appropriate cable entry to fit actual cable diameter																																																	
Grommet for top and side entry black thermoplastic hood		09 67 001 9968	Cut appropriate cable entry to fit actual cable diameter																																																	

¹⁾ 37 ways is only side entry²⁾ Cable clamp kit for two outputs is available with Part No. 09 67 001 9988 (it includes: screw, metal clamp, plastic insert and grommet)

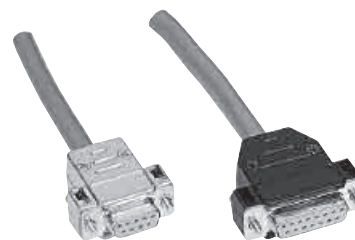


Side entry hoods with knurled screws

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm																									
Hood¹⁾ grey thermoplastic RAL 7032	9 15 25 37 50	09 67 009 0571 09 67 015 0571 09 67 025 0571 09 67 037 0571 09 67 050 0571																											
grey thermoplastic with internal tin-plate screening	9 15 25 37 50	09 67 009 0573 09 67 015 0573 09 67 025 0573 09 67 037 0573 09 67 050 0573																											
9-37 way for packaging density of 3 TE (15.24 mm)				<table border="1"> <thead> <tr> <th></th><th>a max.</th><th>b</th><th>c</th><th>d max.</th></tr> </thead> <tbody> <tr> <td>15</td><td>39.62</td><td>33.3</td><td>15</td><td>Ø 9.1</td></tr> <tr> <td>25</td><td>53.52</td><td>47.0</td><td>15</td><td>Ø 11.5</td></tr> <tr> <td>37</td><td>69.80</td><td>63.5</td><td>15</td><td>Ø 12.8</td></tr> <tr> <td>50</td><td>67.41</td><td>61.1</td><td>19</td><td>Ø 14.5</td></tr> </tbody> </table>		a max.	b	c	d max.	15	39.62	33.3	15	Ø 9.1	25	53.52	47.0	15	Ø 11.5	37	69.80	63.5	15	Ø 12.8	50	67.41	61.1	19	Ø 14.5
	a max.	b	c	d max.																									
15	39.62	33.3	15	Ø 9.1																									
25	53.52	47.0	15	Ø 11.5																									
37	69.80	63.5	15	Ø 12.8																									
50	67.41	61.1	19	Ø 14.5																									
Knurled screw Thread UNC Thread M3	9-50	09 67 000 9971 ⁴⁾ 09 67 001 9965*																											
Thread UNC Thread M3	9-50	09 67 001 9978 09 67 001 9977																											
Tooling⁶⁾ for assembly of hoods Top part Bottom part		09 99 000 0215* 09 99 000 0216*																											

* Not normally kept in stock

¹⁾ Order knurled screw separately²⁾ Before assembling the hood, the knurled screws must be inserted into the lower hood part.³⁾ For retained nut when using slide lock or female screw lock⁴⁾ 9 way 1 per hood – 15-50 way 2 per hood⁵⁾ Screw driver type ISO PH 1 for philips screw No 1 ISO norm 4757⁶⁾ Additional tooling (bench press) see chapter 32



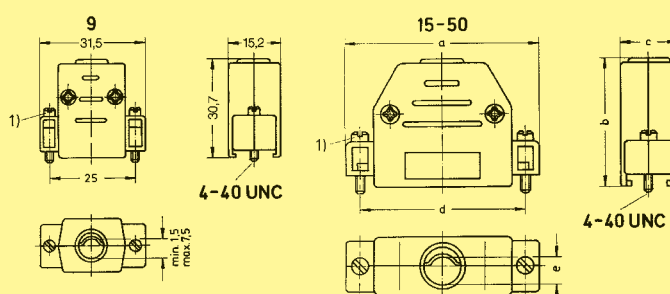
Top entry hoods with knurled or locking screws

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm
----------------	-----------------	----------	---------	------------------

Hood

Black thermoplastic
with short locking
screws

9	09 67 009 0442
15	09 67 015 0442
25	09 67 025 0442
37	09 67 037 0442
50	09 67 050 0442

**Hood**

Metallized thermo-
plastic with short
locking screws

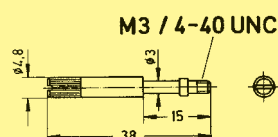
9	09 67 009 0443
15	09 67 015 0443
25	09 67 025 0443
37	09 67 037 0443
50	09 67 050 0443

	a	b	c	d	e	
					min.	max.
15	40.0	34.7	15.2	33.3	3.3	8.5
25	53.2	39.7	15.2	47.0	3.5	11.0
37	70.0	39.7	15.2	63.5	3.5	11.0
50	67.5	39.7	18.2	61.1	9.3	12.0

Knurled screw

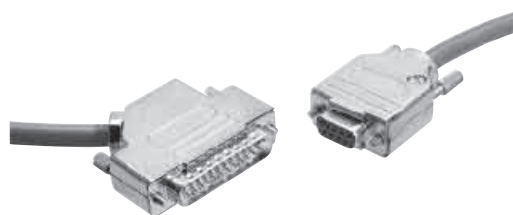
for metallized hood
Thread UNC
Thread M3

9-50	09 67 000 9925 ²⁾
9-50	09 67 000 9930 ²⁾

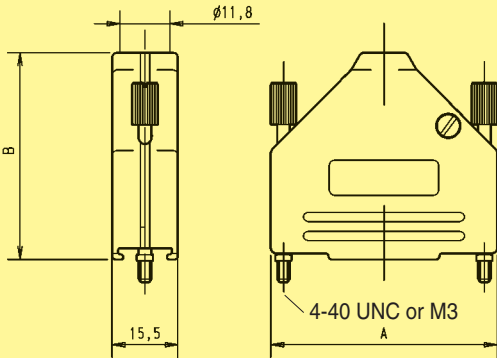
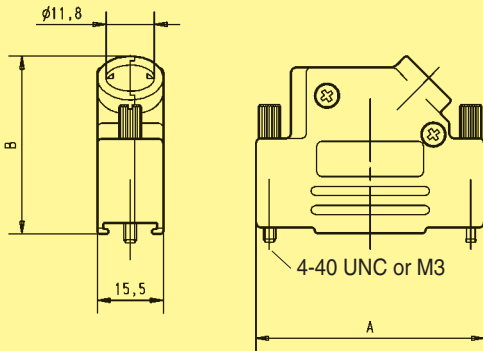


¹⁾ Use of knurled screws is possible. Please order separately

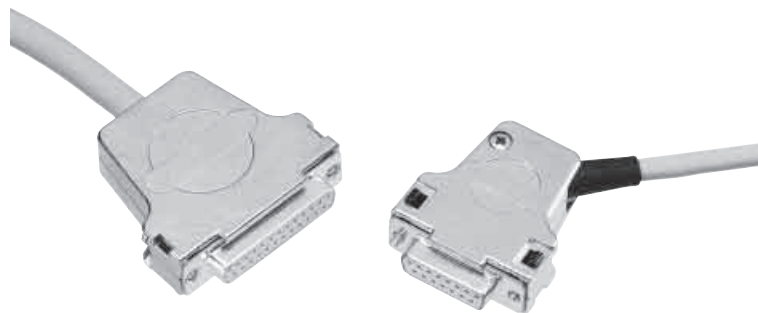
²⁾ Order 2 for each hood



Full metal top and side entry hoods with knurled screws

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm															
Top entry hood				<table><tr><th>Poles</th><th>A</th><th>B</th></tr><tr><td>9</td><td>31.2</td><td>39.9</td></tr><tr><td>15</td><td>39.5</td><td>41.5</td></tr><tr><td>25</td><td>53.4</td><td>48.6</td></tr><tr><td>37</td><td>69.7</td><td>53.6</td></tr></table>	Poles	A	B	9	31.2	39.9	15	39.5	41.5	25	53.4	48.6	37	69.7	53.6
Poles	A	B																	
9	31.2	39.9																	
15	39.5	41.5																	
25	53.4	48.6																	
37	69.7	53.6																	
	9 15 25 37	09 67 009 034 . 09 67 015 034 . 09 67 025 034 . 09 67 037 034 .																	
Please insert digit for screw option																			
Knurled screw, thread 4-40 UNC ▶	3																		
Knurled screw, thread M3 ▶	8																		
Side entry hood				<table><tr><th>Poles</th><th>A</th><th>B</th></tr><tr><td>9</td><td>31.0</td><td>38.0</td></tr><tr><td>15</td><td>40.5</td><td>41.1</td></tr><tr><td>25</td><td>53.7</td><td>41.8</td></tr><tr><td>37</td><td>69.8</td><td>41.8</td></tr></table>	Poles	A	B	9	31.0	38.0	15	40.5	41.1	25	53.7	41.8	37	69.8	41.8
Poles	A	B																	
9	31.0	38.0																	
15	40.5	41.1																	
25	53.7	41.8																	
37	69.8	41.8																	
	9 ¹⁾ 15 25 37	09 67 009 033 . 09 67 015 033 . 09 67 025 033 . 09 67 037 033 .																	
Please insert digit for screw option																			
Knurled screw, thread 4-40 UNC ▶	3																		
Knurled screw, thread M3 ▶	6																		

¹⁾ 9 pole hood provided with only one screw on the opposite side of the cable entry.



Full metal top and side entry hoods
with short screws

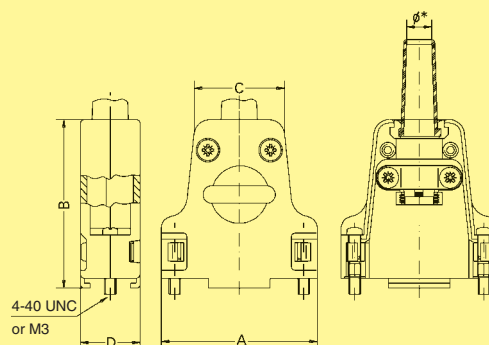
Identification No. of contacts Part No. Drawing Dimensions in mm

Top entry hood

9	09 67 009 034
15	09 67 015 034
25	09 67 025 034
37	09 67 037 034
50	09 67 050 034

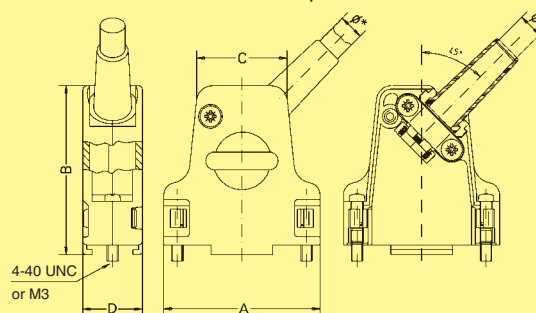
Please insert digit for screw option

Locking screw, thread 4-40 UNC	4
Locking screw, thread M3	9



Poles	A	B	C	D	Ø F1		Ø F2	Ø F3
					Min.	Max.		
9	31.8	42.4	20.8	15.4	3.0	9.5	6.5	—
15	40.3	43.5	23.3	15.4	3.0	8.5	6.5	12.5
25	54.0	47.7	31.7	15.4	3.0	8.5	8.0	12.5
37	70.2	50.4	48.2	15.4	3.0	12.0	9.0	15.0
50	67.8	50.5	45.8	18.2	3.0	12.0	9.7	15.0

* Cable diameter without rubber bushing = Ø F1
Cable diameter with rubber bushing = Ø F2
Cable diameter without rubber bushing
and without cable reduction plate = Ø F3



Side entry hood

9	09 67 009 033
15	09 67 015 033
25	09 67 025 033
37	09 67 037 033
50	09 67 050 033

Please insert digit for screw option

Locking screw, thread 4-40 UNC	4
Locking screw, thread M3	5

Locking hook

09 67 002 9031

Latch lock bolt

Front mount

thread 4-40 UNC
thread M3

09 67 002 9041
09 67 002 9042

Rear mount

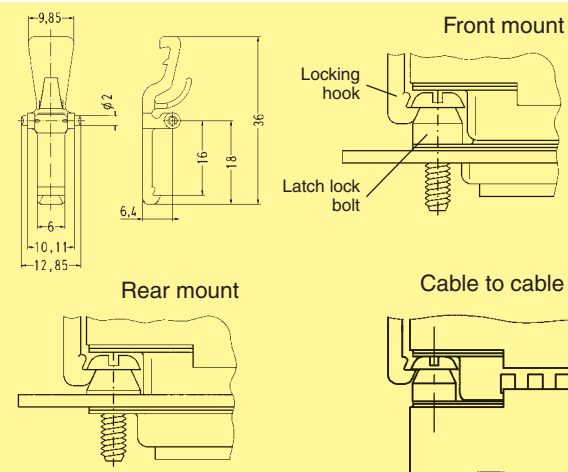
thread 4-40 UNC
thread M3

09 67 002 9032
09 67 002 9040

Cable to cable

thread 4-40 UNC
thread M3

09 67 002 9044
09 67 002 9045



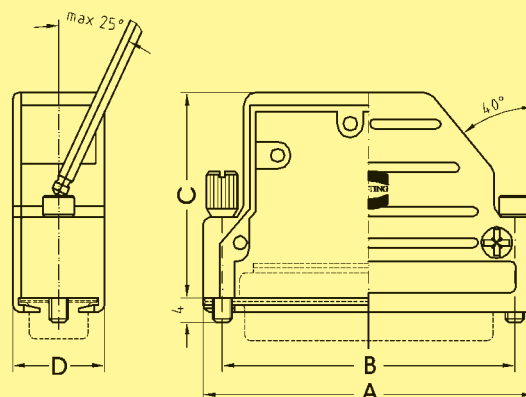


Full metal top and side entry hoods
with different screw options

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm
----------------	-----------------	----------	---------	------------------

40° side entry hood

9	61 03 001 . 013
15	61 03 001 . 014
25	61 03 001 . 015



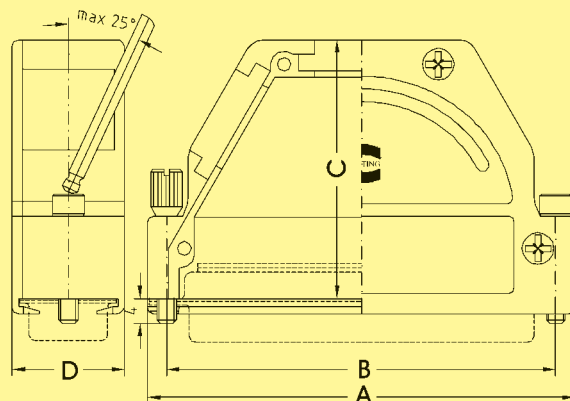
No. of contacts	A	B	C	D
9	31.0	25.0	35.0	15.0
15	39.3	33.3	35.0	15.0
25	53.0	47.0	35.0	15.0

Top/side entry hood

9	61 03 001 . 010
15	61 03 001 . 016
25	61 03 001 . 017 ¹⁾
37	61 03 001 . 018 ¹⁾
50	61 03 001 . 019 ¹⁾

Please insert digit for screw option

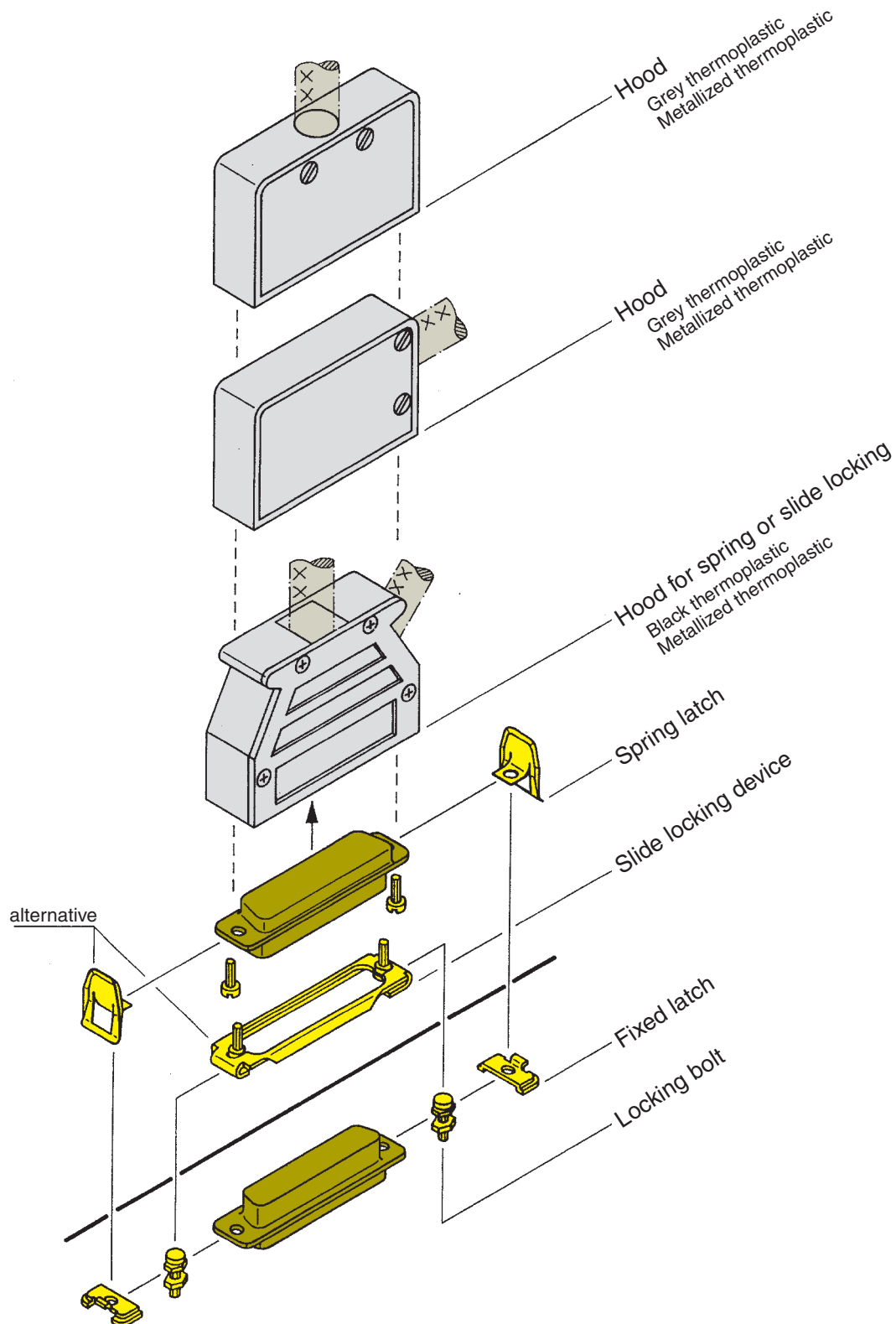
- Knurled screw, thread 4-40 UNC ► 0
- Hexagonal screw, thread M3 with captive washer ► 1
- Hexagonal screw, thread 4-40 UNC with captive washer ► 2
- Knurled screw, thread M3 ► 3



No. of contacts	No. of cable entries	A	B	C	D
9	1 (top)	31.0	25.0	38.0	15.0
15	1 (top)	39.5	33.3	35.0	15.0
25	3	53.0	47.0	43.0	15.0
37	3	69.5	63.5	43.0	15.0
50	3	67.2	61.6	43.0	17.8

¹⁾ Part No. contains two blanking pieces

Connector hoods for spring or slide locking



Thermoplastic top
and side entry hoods
for spring or slide locking



Identification

No. of
contacts

Part No.

Drawing

Dimensions in mm

Top entry hood

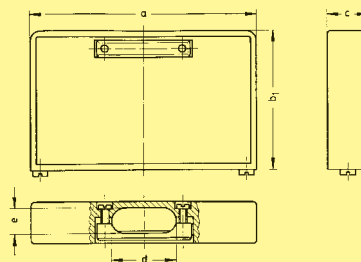
9
15
25
37
50

Thermoplastic
grey

09 67 009 0411
09 67 015 0411
09 67 025 0411
09 67 037 0411
09 67 050 0411

Thermoplastic
metallized

09 67 009 0413
09 67 015 0413
09 67 025 0413
09 67 037 0413
09 67 050 0413



9-37 way
for packaging density
of 3 TE (15.24 mm)

	a	b ₁	b ₂	c	d	e	
						min.	max.
9	31.0	23	28	12.8	10	5.75	9.0
15	39.4	28	28	12.8	10	5.75	9.0
25	53.3	34	34	12.8	14	5.75	9.0
37	69.7	43	43	12.8	20	5.75	9.0
50	67.1	41	41	15.8	20	5.75	11.6

Side entry hood

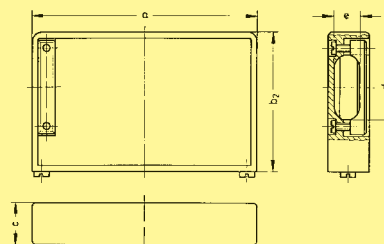
9
15
25
37
50

Thermoplastic
grey

09 67 009 0511
09 67 015 0511
09 67 025 0511
09 67 037 0511
09 67 050 0511

Thermoplastic
metallized

09 67 009 0513
09 67 015 0513
09 67 025 0513
09 67 037 0513
09 67 050 0513



9-37 way
for packaging density
of 3 TE (15.24 mm)

Top and side entry
hood ¹⁾

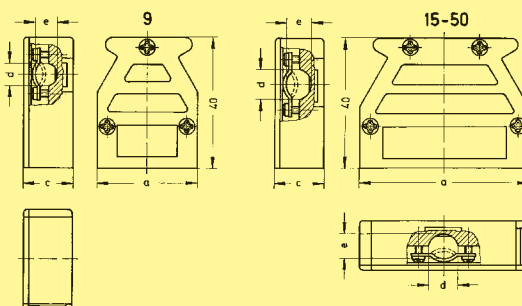
9
15
25
37
50

Thermoplastic
black

09 67 009 0452
09 67 015 0452
09 67 025 0452
09 67 037 0452
09 67 050 0452

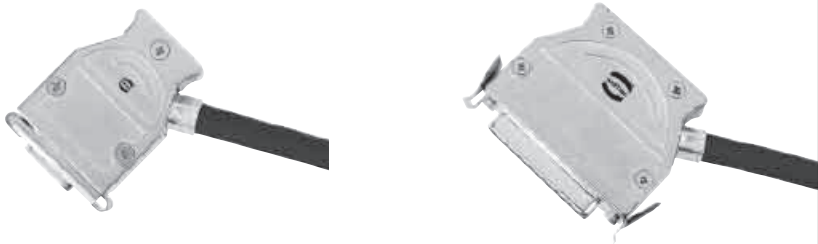
Thermoplastic
metallized

09 67 009 0453
09 67 015 0453
09 67 025 0453
09 67 037 0453
09 67 050 0453



	a	c	d	e	
				min.	max.
9	31.0	15.4	7	1.7	7.5
15	39.4	15.4	7	1.7	8.0
25	53.2	15.4	9	1.5	8.0
37	69.5	15.4	9	1.5	8.0
50	67.0	17.9	9	1.5	8.0

¹⁾ 9 poles is only side entry
Accessories see page 07.13

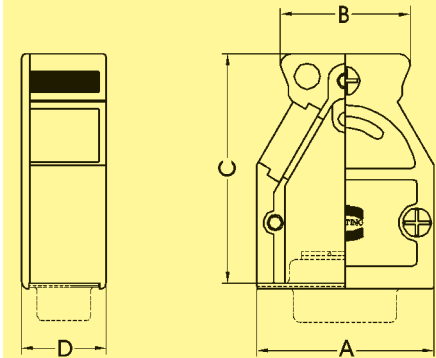


Full metal top and side entry hoods for spring or slide locking

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm
----------------	-----------------	----------	---------	------------------

Top/side entry hood with spring/slide locking

	9	61 03 001 0022 ¹⁾
	15	61 03 001 0011 ²⁾
	25	61 03 001 0012 ²⁾
	37	61 03 001 0021 ²⁾
	50	61 03 001 0020 ²⁾



No. of contacts	No. of cable entries	A	B	C	D
9	2	31.0	22.6	40.0	14.8
15	3	39.0	30.6	40.0	14.8
25	3	53.0	42.6	40.0	14.8
37	3	69.5	59.2	40.0	14.8
50	3	67.0	55.0	40.0	17.6

D-Sub - H

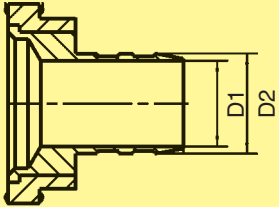
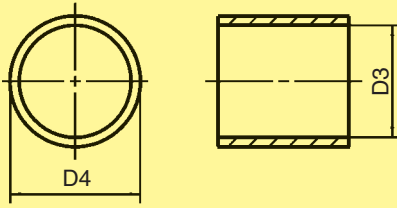
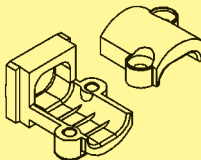
¹⁾ Part No. contains one blanking piece
²⁾ Part No. contains two blanking pieces

Accessories for spring or slide locking hoods

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm																														
Spring latch	9-50	corrosion resistant steel 09 67 000 9907 ¹⁾																																
Fixed latch	9-37 50	corrosion resistant steel 09 67 001 9971 ¹⁾ 09 67 001 9972 ¹⁾																																
Slide locking device	9 15 25 37 50	corrosion resistant steel 09 67 000 9914 09 67 000 9915 09 67 000 9916 09 67 000 9917 09 67 000 9918	<table border="1"> <thead> <tr> <th></th><th>a</th><th>b</th><th>c</th><th>d</th></tr> </thead> <tbody> <tr> <td>9</td><td>35.6</td><td>25.0</td><td>12.0</td><td>10.0</td></tr> <tr> <td>15</td><td>44.0</td><td>33.3</td><td>12.0</td><td>10.0</td></tr> <tr> <td>25</td><td>57.8</td><td>47.0</td><td>12.0</td><td>10.0</td></tr> <tr> <td>37</td><td>74.3</td><td>63.5</td><td>12.0</td><td>10.0</td></tr> <tr> <td>50</td><td>72.0</td><td>61.1</td><td>14.8</td><td>13.5</td></tr> </tbody> </table>		a	b	c	d	9	35.6	25.0	12.0	10.0	15	44.0	33.3	12.0	10.0	25	57.8	47.0	12.0	10.0	37	74.3	63.5	12.0	10.0	50	72.0	61.1	14.8	13.5	
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50	72.0	61.1	14.8	13.5																														
Locking bolt	9-50	tinned 09 67 001 9973 ¹⁾																																

¹⁾ Order 2 for each connector

Accessories for full metal hoods

Identification	Part No.		Drawing	Dimensions in mm																																								
Crimp flange	Hoods for 9-37 pole D-Sub	Hoods for 50 pole D-Sub	<table><tr><th>D1</th><th>D2</th></tr><tr><td>3.0</td><td>4.0</td></tr><tr><td>3.5</td><td>4.5</td></tr><tr><td>4.0</td><td>5.0</td></tr><tr><td>4.5</td><td>5.5</td></tr><tr><td>5.0</td><td>6.0</td></tr><tr><td>5.5</td><td>6.5</td></tr><tr><td>6.0</td><td>7.0</td></tr><tr><td>6.5</td><td>7.5</td></tr><tr><td>7.0</td><td>8.0</td></tr><tr><td>7.5</td><td>8.5</td></tr><tr><td>8.0</td><td>9.0</td></tr><tr><td>8.5</td><td>9.5</td></tr><tr><td>9.0</td><td>10.0</td></tr></table> 	D1	D2	3.0	4.0	3.5	4.5	4.0	5.0	4.5	5.5	5.0	6.0	5.5	6.5	6.0	7.0	6.5	7.5	7.0	8.0	7.5	8.5	8.0	9.0	8.5	9.5	9.0	10.0													
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Crimp ferrule	61 03 000 0045		<table><tr><th>D3</th><th>D4</th></tr><tr><td>5.0</td><td>6.0</td></tr><tr><td>5.5</td><td>6.5</td></tr><tr><td>6.0</td><td>7.0</td></tr><tr><td>6.5</td><td>7.5</td></tr><tr><td>7.0</td><td>8.0</td></tr><tr><td>7.5</td><td>8.5</td></tr><tr><td>8.0</td><td>9.0</td></tr><tr><td>8.5</td><td>9.5</td></tr><tr><td>9.0</td><td>10.0</td></tr><tr><td>9.5</td><td>10.5</td></tr><tr><td>10.0</td><td>11.0</td></tr><tr><td>10.5</td><td>11.5</td></tr><tr><td>11.0</td><td>12.0</td></tr><tr><td>11.5</td><td>12.5</td></tr><tr><td>12.0</td><td>13.0</td></tr><tr><td>12.5</td><td>13.5</td></tr><tr><td>13.0</td><td>14.0</td></tr><tr><td>13.7</td><td>15.0</td></tr><tr><td>14.0</td><td>15.0</td></tr></table> 	D3	D4	5.0	6.0	5.5	6.5	6.0	7.0	6.5	7.5	7.0	8.0	7.5	8.5	8.0	9.0	8.5	9.5	9.0	10.0	9.5	10.5	10.0	11.0	10.5	11.5	11.0	12.0	11.5	12.5	12.0	13.0	12.5	13.5	13.0	14.0	13.7	15.0	14.0	15.0	
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61 03 000 0127																																												
61 03 000 0060																																												
61 03 000 0061																																												
Cable clamp	cable-Ø appr. 5- 7 mm	61 03 000 0141																																										
	cable-Ø appr. 7-10 mm	61 03 000 0044																																										
	cable-Ø appr. 10-12 mm	61 03 000 0143																																										
	cable-Ø appr. 11-14 mm			61 03 000 0145																																								
Blanking piece for hoods	61 03 000 0042	61 03 000 0041																																										
Hexagonal screw thread 4-40 UNC x 17.5- 8.8 with captive washer	09 67 002 9020																																											
	09 67 002 9019																																											
Knurled screw thread 4-40 UNC	09 67 002 9018																																											
	09 67 002 9017																																											

Crimp flange termination instruction

1. Strip the cable sheath to the correct length (approx. 35 to 40 mm, depending on interface type).
2. Place the crimp ferrule over the cable sheath. Bend the outer screen backwards over the cable sheath. Cut screen approx. 2 mm from the end of the cable sheath.
3. Place the crimp flange over the wires covered by the remaining foil shield. Push and twist the crimp flange under the outer screen and cable sheath until the end of the cable sheath touches the crimp flange. HARTING has developed a special tool for optimised installation of the shielding over the crimp flange, part number 61 03 600 0017.
4. Move the crimp ferrule back onto the crimp flange and crimp the two parts together with the special service crimp tool part number 61 03 600 0020. For an optimised crimp process the tool should be positioned as close as possible to the crimp flange shoulder.
5. Cut off the internal screen foil and push the crimp flange inside the metal hood.

HARTING offers to test and define the best crimp flange and ferrule combination for customer specific cables.

