

## Rafix 20 and 30 System

The Rafix 20 and Rafix 30 RTA connector systems have zinc alloy tightening elements that are based on the centric principle.

The advantages are:

- Secure tightening, even after repeated slackening and re-tightening
- No displacement of side panels, because bolts are centrally guided.
- Tolerances are compensated for by long tightening distance
- Comfortable tightening with drive tool in 25° position
- All drilling operations take place on a flat surface

A comprehensive range of connecting bolts, sleeves and accessories for any installation situation is available for the Rafix 20 and the Rafix 30 connector systems.

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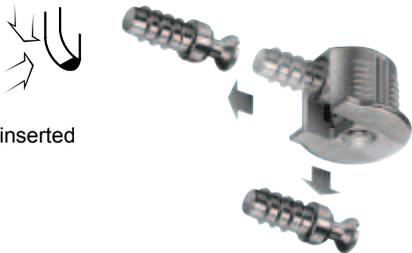
Connector Technology

<b>Rafix 20</b>	 <ul style="list-style-type: none"> <li>• Connector housing made from <b>zinc alloy</b> or <b>plastic</b></li> <li>• Connector housing <b>without</b> dowel</li> <li>• <b>With tightening element</b> for tightening and fixing of the components</li> <li>• Only one drill hole</li> <li>• Small design</li> <li>• With or without rim (zinc alloy housing available only with rim)</li> </ul>
	 <ul style="list-style-type: none"> <li>• Connector housing made from <b>zinc alloy</b> or <b>plastic</b></li> <li>• Connector housing <b>with</b> dowel</li> <li>• <b>With tightening element</b> for tightening and fixing of the components</li> <li>• Can be used for alignment, the dowel provides <b>accurate positioning</b></li> <li>• Better pull-out strengths</li> <li>• Valuable, robust appearance</li> </ul>
<b>Rafix 20 Tab</b>	 <ul style="list-style-type: none"> <li>• Shelf connector housing made from <b>plastic</b></li> <li>• Shelf connector <b>without</b> dowel</li> <li>• <b>Without tightening element</b></li> <li>• With design and drilling dimensions identical to Rafix 20</li> <li>• Tightening in slightly angled position</li> <li>• Installation and removing by pushing on and lifting the connecting bolt, no tools required</li> <li>• With rim</li> </ul>
<b>Rafix 30</b>	 <ul style="list-style-type: none"> <li>• Connector housing made from <b>plastic</b></li> <li>• Connector housing <b>with</b> dowel</li> <li>• <b>With tightening element</b> made from zinc alloy for tightening and fixing of the components</li> <li>• Can be used for alignment, the dowel provides <b>accurate positioning</b></li> <li>• High tolerance range (<math>\pm 0.5</math> mm), compensation through long tightening distance (2.5 mm)</li> <li>• High pull-out strengths</li> <li>• For heavy loads</li> </ul>

### Installation

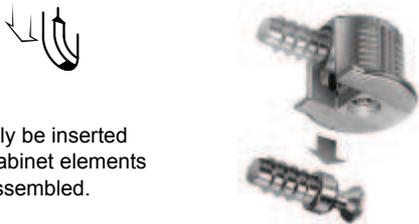
The Rafix 20 and 30 have two types of recess to accommodate the connecting bolt:

① **Without ridge:**

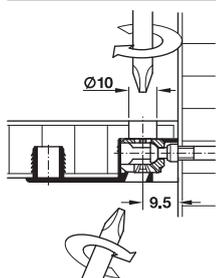


The shelves can be inserted **from the front** and **from above**.

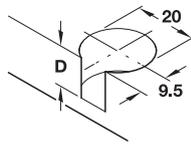
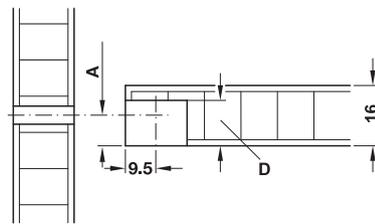
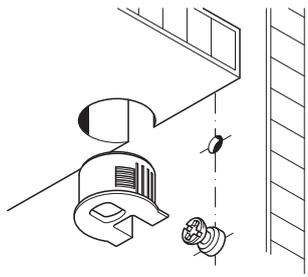
② **With ridge:**



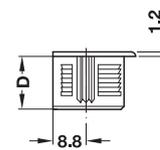
The shelves can only be inserted **from above**; The cabinet elements are therefore pre-assembled.



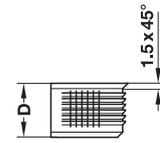
Access from above to the tightening element is possible due to the specially designed housing. Concealed installation of the connectors is therefore possible (e.g. with shelves) and tightening via a  $\varnothing 10$  mm through hole. The through hole is then concealed using a cover cap. Comfortable tightening of the connector from underneath with screwdriver in **25° position**.



With ridge



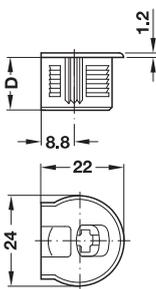
Rafix 20



For flush fitting

## Connector housing without dowel

→ Zinc alloy

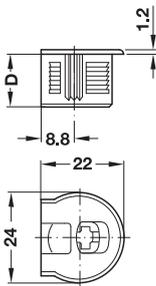


- Material: Zinc alloy, zinc alloy tightening element
- Drive: PZ2 cross slot

For wood thickness mm	Drilling depth D mm	Dim. A mm	Burnished	Nickel plated
<b>With ridge</b>				
16	12.7 <sup>+0.2</sup>	8.0	–	263.15.703
19	14.2 <sup>+0.2</sup>	9.5	263.15.105	263.15.705
<b>Without ridge</b>				
16	12.7 <sup>+0.2</sup>	8.0	263.11.103	263.11.703
19	14.2 <sup>+0.2</sup>	9.5	263.11.105	263.11.705

Packing: 100 or 500 pieces

→ Plastic

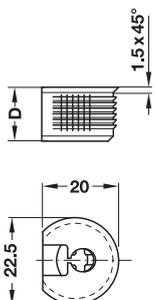


- Material: Plastic, zinc alloy tightening element
- Drive: PZ2 cross slot

For wood thickness mm	Drilling depth D mm	Dim. A mm	Beige	Brown	Black	White	White aluminium
<b>With ridge</b>							
16	12.7 <sup>+0.2</sup>	8.0	263.14.403	263.14.103	–	263.14.703	263.14.203
19	14.2 <sup>+0.2</sup>	9.5	263.14.405	263.14.105	–	263.14.705	263.14.205
<b>Without ridge</b>							
16	12.7 <sup>+0.2</sup>	8.0	263.10.403	263.10.103	263.10.303	263.10.703	263.10.203
19	14.2 <sup>+0.2</sup>	9.5	263.10.405	263.10.105	263.10.305	263.10.705	263.10.205

Packing: 100 or 1000 pieces

→ Plastic, for flush fitting



- Material: Plastic, zinc alloy tightening element
- Version: With countersunk rim for flush fitting
- Drive: PZ2 cross slot

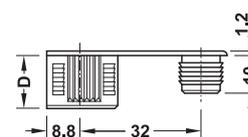
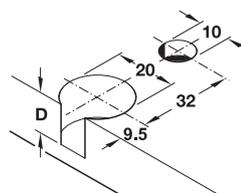
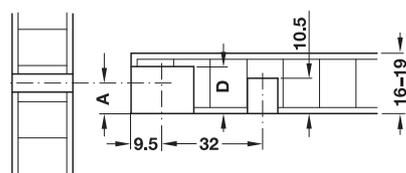
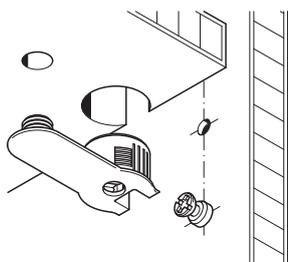
For wood thickness mm	Drilling depth D mm	Dim. A mm	Beige	Brown	Black	White
<b>Without ridge</b>						
16	12.7 <sup>+0.2</sup>	8.0	263.50.403	263.50.103	–	263.50.703
19	14.2 <sup>+0.2</sup>	9.5	263.50.405	263.50.105	263.50.305	263.50.705

Packing: 100 or 1000 pieces

### Note

Countersunk drill bit Cat. No. 001.24.309 (for wood thickness 16 mm) or Cat. No. 001.24.327 (for wood thickness 19 mm) available.

Information	► FF 3.34
Connecting bolts	► FF 3.38
Red Jig drilling jig	► FF 3.42



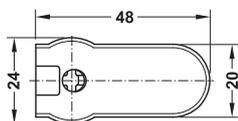
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Connector housing with dowel  
→ Zinc alloy

Connector Technology



- Material: Zinc alloy, zinc alloy tightening element
- Drive: PZ2 cross slot
- Finish: Nickel plated



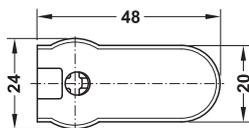
For wood thickness mm	Drilling depth D mm	Dim. A mm	Cat. No.
<b>With ridge</b>			
16	12.7 <sup>+0.2</sup>	8.0	263.17.703
19	14.2 <sup>+0.2</sup>	9.5	263.17.705
<b>Without ridge</b>			
16	12.7 <sup>+0.2</sup>	8.0	263.13.703
19	14.2 <sup>+0.2</sup>	9.5	263.13.705

Packing: 100 or 500 pieces

→ Plastic



- Material: Plastic, zinc alloy tightening element
- Drive: PZ2 cross slot

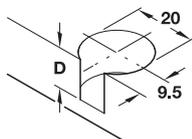
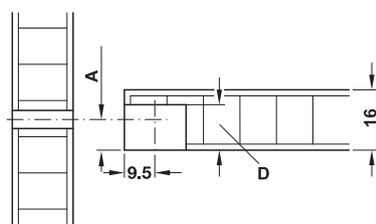
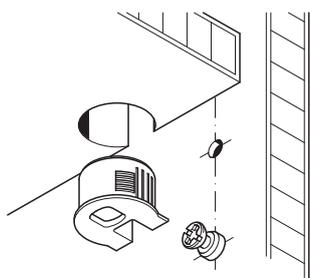


For wood thickness mm	Dim. A mm	Drilling depth D mm	Beige	Brown	Black	White
<b>With ridge</b>						
19	9.5	14.2 <sup>+0.2</sup>	–	–	–	263.16.705
<b>Without ridge</b>						
16	8.0	12.7 <sup>+0.2</sup>	–	–	263.12.303	263.12.703
19	9.5	14.2 <sup>+0.2</sup>	263.12.405	263.12.105	263.12.305	263.12.705

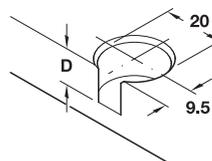
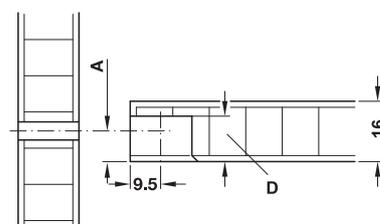
Packing: 100 or 1000 pieces

Order reference

Other colours available on request.



With ridge



For flush fitting



**A**

**Rafix Tab 20**

For installation within the Rafix 20 system without tools:

- The housing is simply pushed onto the bolt
- The angled tightening position ensures that the bolt is extremely tight
- The catch prevents the shelf from "moving"

Rafix connectors are also required for high cabinet components to prevent "bulging out".

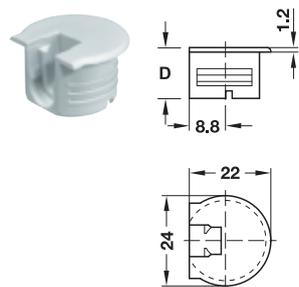
- Diameter: Connector housing 20 mm
- For wood thickness: 16 mm
- Dim. A: Distance between centre of bolt hole and top edge, corresponds to half of the wood thickness
- Drilling depth: 12.7 mm

**Note**

Countersunk drill bit Cat. No. 001.24.309 (for wood thickness 16 mm) or Cat. No. 001.24.327 (for wood thickness 19 mm) available.

**Connector housing**

→ **With ridge**

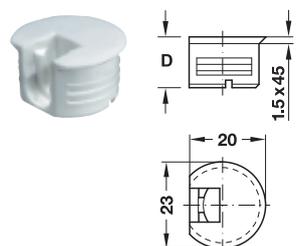


- Material: Plastic

For wood thickness mm	Dim. A mm	Drilling depth D mm	Beige	Brown	Black	White	White aluminium
16	8	12.7	263.09.437	263.09.133	263.09.339	263.09.731	263.09.230

Packing: 100 or 1000 pieces

→ **For flush fitting, with ridge**



- Material: Plastic
- Version: With countersunk rim for flush fitting

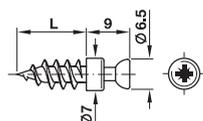
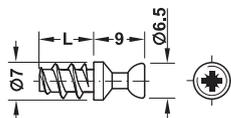
For wood thickness mm	Dim. A mm	Drilling depth D mm	Black	White
from 16	8	12.7	263.07.330	263.07.730

Packing: 100 or 5000 pieces

### M20 Connecting bolt

- Drive: PZ2 cross slot
- Bolt hole: 7 mm

→ For Ø 5 mm drill hole, with special thread



Thread length L mm	Material	Bright
7.5	Zinc alloy	263.20.131

Packing: 100 or 2000 pieces

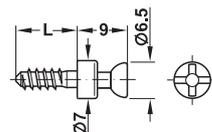
Thread length L mm	Material	Galvanized
12	Steel	263.20.981

Packing: 100, 1000 or 5000 pieces

### S20 Connecting bolt

- Material: Steel
- Drive: PZ2 cross slot and flat blade
- Bolt hole: 7 mm

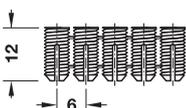
→ For Ø 3 mm drill hole, with special thread



Thread length L mm	Bright	Galvanized
11	263.20.114	263.20.810

Packing: 100 or 2000 pieces

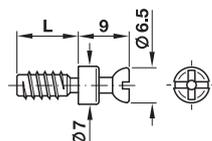
### Spreading sleeves



For drill hole Ø mm	Length L mm	Material	Cat. No.
5	12	Polyamide	042.98.051

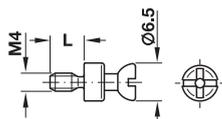
Packing: 1000 or 5000 pieces

→ For Ø 5 mm drill hole, with special thread



Thread length L mm	Packing pieces	Bright	Galvanized
11	100 or 1000	263.20.141	263.20.847
15	100 or 2000	263.20.150	263.20.856

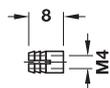
→ With M4 thread



Thread length L mm	Bright	Galvanized
7,5	263.21.111	263.21.817

Packing: 100 or 2000 pieces

M4 spreading and glue-in sleeves



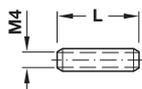
Spreading sleeve



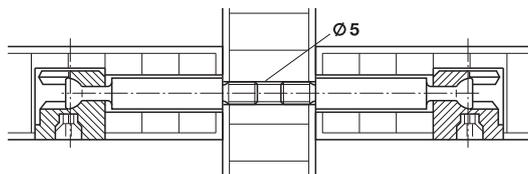
Glue-in sleeve

For drill hole Ø mm	Material	Length L mm	Packing pieces	Cat. No.
<b>M4 spreading sleeve</b>				
5	Brass	8	100, 1000 or 3000	051.45.004
<b>M4 glue-in sleeve</b>				
8	Polyamide	8	100 or 1000	039.33.140
		10	100, 1000 or 5000	039.33.042
10	Polyamide	10	1000 or 5000	039.33.239
		13	100 or 1000	039.33.033

Threaded sleeve



Installation



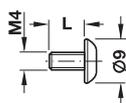
Double-sided installation

- Area of application: For double-sided installation

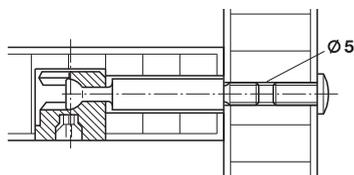
For drill hole Ø mm	Length L mm	Bright	Galvanized
5	15	267.00.011	267.00.911
	18	267.00.012	267.00.912
	22	267.00.013	267.00.913
	30	–	267.00.916

Packing: 100 or 1000 pieces

End screw



Installation



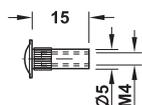
Single-sided installation

- Material: Steel
- Area of application: Can be used as capped bolt with sleeve

Length L mm	Nickel plated
8	020.92.711
10	020.92.720

Packing: 100, 1000 or 5000 pieces

Sleeve with threaded end, M4



- Material: Steel

For drill hole Ø mm	Length L mm	Nickel plated
5	15	267.01.711

Packing: 2000 pieces

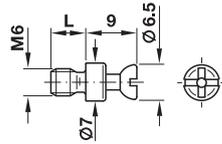
DGH-M-INT 2013, HDE-en, 01/13; Dimensional data not binding. We reserve the right to alter specifications without notice.



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Connector Technology

→ With M6 thread



Thread length L mm	Bright	Galvanized
7.5	263.21.120	263.21.826
12	263.21.121	263.21.821

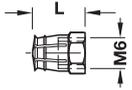
Packing: 100 or 2000 pieces



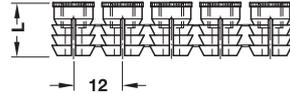
M6 spreading and glue-in sleeves

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Connector Technology



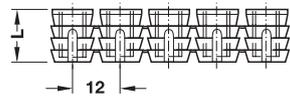
Spreading sleeve



Strip of spreading sleeves



Glue-in sleeve

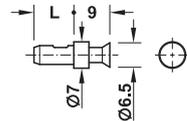


Strip of glue-in sleeves

For drill hole Ø mm	Material	Length L mm	Packing pieces	Cat. No.
<b>M6 spreading sleeve</b>				
8	Brass	9	100 or 1000	039.00.267
		12	100 or 2000	039.00.061
<b>Strip of M6 sleeves</b>				
10	Polyamide	13	108 or 5400	039.35.064
<b>M6 glue-in sleeve</b>				
8	Polyamide	11	100 or 1000	039.33.462
10	Polyamide	9	100 or 1000	039.33.364
		11	100 or 1000	039.33.266
		13	100 or 1000	039.33.060
<b>Strip of M6 glue-in sleeves</b>				
10	Polyamide	13	100 or 1000	039.34.067

Socket pin

→ For Ø 5 mm drill hole, for plug fitting



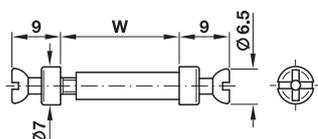
Length L mm	For drill hole Ø	Material	Finish	Cat. No.
11	5 mm	Zinc alloy	Bright	263.20.073

Packing: 2000 pieces

## Double-ended bolt

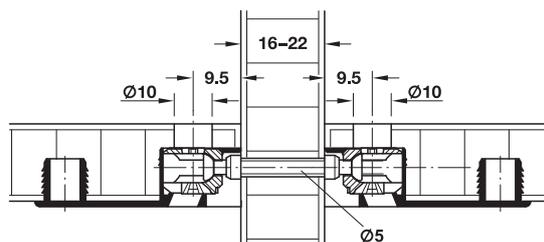
- Area of application: For special applications
- Material: Steel
- Bolt hole: 5 or 8 mm

### → Double-ended bolt 2-piece, for screwing together



- Area of application: For double-sided installation
- Drive: PZ2 cross slot and flat blade
- Installation: 2-piece, for screwing together and then tightening with housing
- Bolt hole: 5 mm

#### Installation

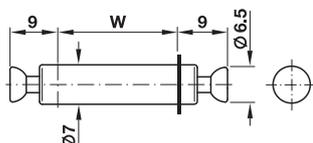


Double-sided installation

Panel thickness W mm	Bright	Galvanized
16-22	263.24.041	263.24.943

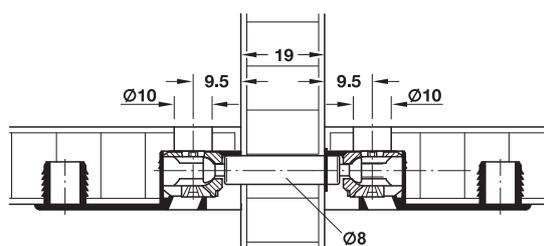
Packing: 100 pieces

### With snap ring



- Area of application: For double-sided installation
- Bolt hole: 8 mm

#### Installation



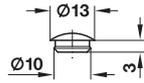
Double-sided installation

Panel thickness W mm	Galvanized
19	263.24.934

Packing: 100 or 500 pieces

## Rafix Accessories

### → Cover cap



- Area of application: For covering Ø 10 mm through-holes where the tightening element is accessed from above
- Material: Plastic

Colour	Cat. No.
White	045.13.704
Beige	045.13.400
Brown	045.13.106
Black	045.13.300

Packing: 100 or 1000 pieces



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Connector Technology

## Rafix System processing aids

### → Red Jig Rafix 20 Supplement



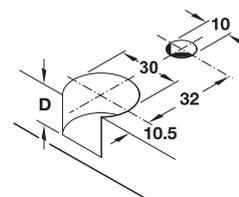
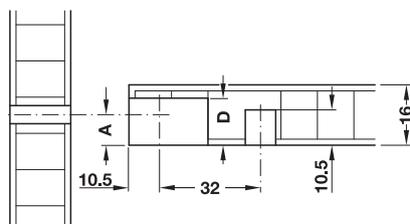
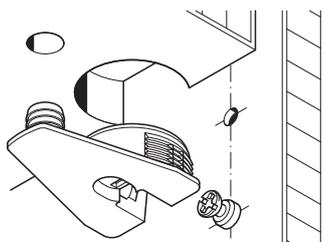
- Area of application: For precise drilling for the Rafix 20 system
- Material: Aluminium anodized

	Cat. No.
Red Jig Supplement for Rafix 20	001.25.821
Contains:	
1 Rafix 20 insert	
1 depth gauge 32 (with depth stop and spiral spring) and HM multi-spur drill bit, 3-spur, Ø 20 mm, RI, for wood thickness 19 mm, with countersinker	

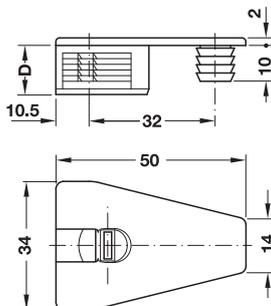
Packing: 1 set

#### Order reference

If no basic components of the Red Jig drilling jig exist, the **basic jig** with **Cat. No. 001.25.600** must also be ordered.



**Connector housing**  
→ With rim, plastic



- Material: Plastic, tightening element: Zinc alloy
- Drive: Flat blade

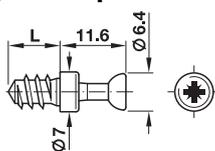
For wood thickness mm	Dim. A mm	Drilling depth D mm	White aluminium
<b>With ridge</b>			
from 16	8	13	263.46.235
<b>Without ridge</b>			
from 16	8	13	263.46.215

Packing: 100 or 1000 pieces

**S30 Connecting bolt**

- Material: Steel
- Drive: PZ2 cross slot

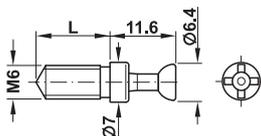
→ For Ø 5 mm drill hole, with special thread



Thread length L mm	Galvanized
12	263.48.904

Packing: 100 or 5000 pieces

→ With M6 thread



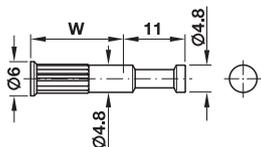
Thread length L mm	Galvanized
13	263.48.912

Packing: 100 or 2000 pieces

**Capped and double-ended bolt**

- Area of application: For special applications
- Material: Steel
- Bolt hole: 5 mm

→ Capped bolt

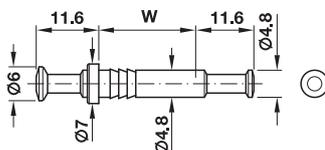


- Area of application: For one-sided installation

Panel thickness W mm	Galvanized
16	263.48.941

Packing: 100 or 2000 pieces

→ Double-ended bolt



- Area of application: For double-sided installation

Panel thickness W mm	Bright	Galvanized
16	263.48.021	263.48.921

Packing: 100 or 2000 pieces

Cover caps

► FF 3.42

DGH-M-INT 2013, HDE-en, 01/13; Dimensional data not binding. We reserve the right to alter specifications without notice.



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Connector Technology