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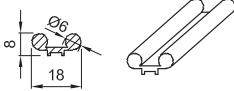
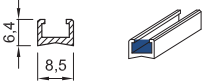

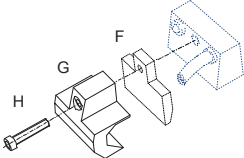

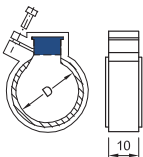

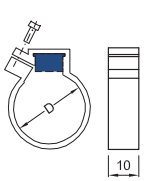

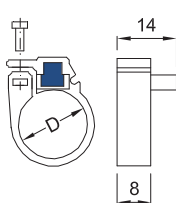

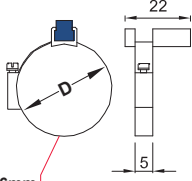
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

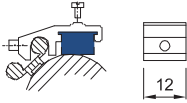

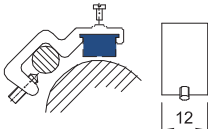


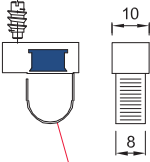


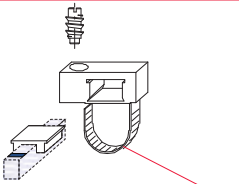


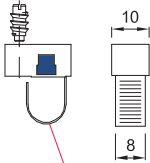
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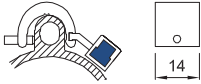

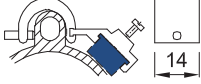

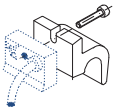


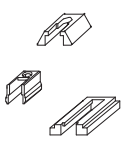
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 tie-rod tirante	FBV	FA 11 polyamide zinc plated iron poliammide ferro zincato 	<table border="1"> <thead> <tr> <th>inch</th> <th>mm</th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1 1/4"</td><td>32</td><td></td><td></td></tr> <tr><td>1 1/2"</td><td>40</td><td></td><td></td></tr> <tr><td>2"</td><td>50</td><td>H + G</td><td></td></tr> <tr><td>2 1/2"</td><td>63</td><td></td><td></td></tr> <tr><td>3"</td><td>80</td><td></td><td></td></tr> <tr><td>4"</td><td>100</td><td>H + G</td><td></td></tr> <tr><td>5"</td><td>125</td><td></td><td></td></tr> <tr><td>6 1/4"</td><td>150</td><td>H + G + F</td><td></td></tr> <tr><td>7"</td><td>180</td><td></td><td></td></tr> <tr><td>8"</td><td>200</td><td>H + G + F</td><td></td></tr> </tbody> </table>	inch	mm			1 1/4"	32			1 1/2"	40			2"	50	H + G		2 1/2"	63			3"	80			4"	100	H + G		5"	125			6 1/4"	150	H + G + F		7"	180			8"	200	H + G + F			<table border="1"> <tbody> <tr><td>FA11-0506</td></tr> <tr><td>FA11-0708</td></tr> <tr><td>FA11-0910</td></tr> <tr><td>FA11-1112</td></tr> <tr><td>FA11-1516</td></tr> </tbody> </table>	FA11-0506	FA11-0708	FA11-0910	FA11-1112	FA11-1516																																										
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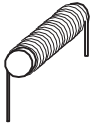
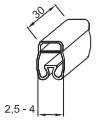






cylinder cilindro	switch interruttore	clamp materials and drawing materiali e disegno staffa	piston Ø pistone Ø	D outer Ø esterno Ø	part number codice ordine																																										
 rail binario  tie-rod tirante	FEK FFV FGV	FA 43 aluminium zinc plated iron alluminio ferro zincato 			FA43-06																																										
suitable for rail FA01 or for tie-rod 4-6 mm diameter adatto per profilo FA01 o per tiranti diametro 4-6 mm																																															
 tie-rod tirante	FEK FFV FGV	FA 44 aluminium zinc plated iron alluminio ferro zincato 	<table border="1"> <thead> <tr> <th>inch</th> <th>mm</th> </tr> </thead> <tbody> <tr><td>1 1/4"</td><td>32</td></tr> <tr><td>1 1/2"</td><td>40</td></tr> <tr><td>2"</td><td>50</td></tr> <tr><td>2 1/2"</td><td>63</td></tr> <tr><td>3"</td><td>80</td></tr> <tr><td>4"</td><td>100</td></tr> <tr><td>5"</td><td>125</td></tr> <tr><td>6 1/4"</td><td>160</td></tr> <tr><td>7"</td><td>180</td></tr> <tr><td>8"</td><td>200</td></tr> <tr><td>10"</td><td>250</td></tr> </tbody> </table>	inch	mm	1 1/4"	32	1 1/2"	40	2"	50	2 1/2"	63	3"	80	4"	100	5"	125	6 1/4"	160	7"	180	8"	200	10"	250		FA44-09 FA44-15 FA44-20																		
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 round rotondo  tie-rod tirante	FEK FFA FFV FGV	FA 45 polyamide brass poliammide ottone  max thickness = 0,6mm spessore max = 0,6mm	<table border="1"> <thead> <tr> <th>inch</th> <th>mm</th> </tr> </thead> <tbody> <tr><td>5/16"</td><td>8</td></tr> <tr><td>3/8"</td><td>10</td></tr> <tr><td>1/2"</td><td>12</td></tr> <tr><td>5/8"</td><td>16</td></tr> <tr><td>3/4"</td><td>20</td></tr> <tr><td>1"</td><td>25</td></tr> <tr><td>1 1/6"</td><td>30</td></tr> <tr><td>1 1/4"</td><td>32</td></tr> <tr><td>1 1/2"</td><td>40</td></tr> <tr><td>2"</td><td>50</td></tr> <tr><td>2 1/2"</td><td>63</td></tr> <tr><td>3"</td><td>80</td></tr> <tr><td>4"</td><td>100</td></tr> <tr><td>5"</td><td>125</td></tr> <tr><td>6 1/4"</td><td>150</td></tr> <tr><td>7"</td><td>180</td></tr> <tr><td>8"</td><td>200</td></tr> <tr><td>10"</td><td>220</td></tr> <tr><td>12"</td><td>300</td></tr> <tr><td>13"</td><td>320</td></tr> </tbody> </table>	inch	mm	5/16"	8	3/8"	10	1/2"	12	5/8"	16	3/4"	20	1"	25	1 1/6"	30	1 1/4"	32	1 1/2"	40	2"	50	2 1/2"	63	3"	80	4"	100	5"	125	6 1/4"	150	7"	180	8"	200	10"	220	12"	300	13"	320		FA45-01 FA45-02 FA45-03 FA45-04 FA45-05
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 round rotondo  tie-rod tirante	FPA FPC FPF FPH FPL FPV	FA 46 polyamide brass poliammide ottone  max thickness = 0,6mm spessore max = 0,6mm	<table border="1"> <thead> <tr> <th>inch</th> <th>mm</th> </tr> </thead> <tbody> <tr><td>5/16"</td><td>8</td></tr> <tr><td>3/8"</td><td>10</td></tr> <tr><td>1/2"</td><td>12</td></tr> <tr><td>5/8"</td><td>16</td></tr> <tr><td>3/4"</td><td>20</td></tr> <tr><td>1"</td><td>25</td></tr> <tr><td>1 1/6"</td><td>30</td></tr> <tr><td>1 1/4"</td><td>32</td></tr> <tr><td>1 1/2"</td><td>40</td></tr> <tr><td>2"</td><td>50</td></tr> <tr><td>2 1/2"</td><td>63</td></tr> <tr><td>3"</td><td>80</td></tr> <tr><td>4"</td><td>100</td></tr> <tr><td>5"</td><td>125</td></tr> <tr><td>6 1/4"</td><td>150</td></tr> <tr><td>7"</td><td>180</td></tr> <tr><td>8"</td><td>200</td></tr> <tr><td>10"</td><td>220</td></tr> <tr><td>12"</td><td>300</td></tr> <tr><td>13"</td><td>320</td></tr> </tbody> </table>	inch	mm	5/16"	8	3/8"	10	1/2"	12	5/8"	16	3/4"	20	1"	25	1 1/6"	30	1 1/4"	32	1 1/2"	40	2"	50	2 1/2"	63	3"	80	4"	100	5"	125	6 1/4"	150	7"	180	8"	200	10"	220	12"	300	13"	320		FA46-01 FA46-02 FA46-03 FA46-04 FA46-05
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ACCESSORIES
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cylinder cilindro	switch interruttore	clamp materials and drawing materiali e disegno staffa	piston Ø pistone Ø		D outer Ø esterno Ø	part number codice ordine
			inch	mm		
<p>tie-rod tirante</p>	FEK FFV FGV	FA 49 polyamide brass stainless steel poliammide ottone acciaio inox minimum distance between jacket and tie-rod = 0,8mm distanza minima tra camicia e tirante = 0,8mm	inch	mm		
			1 1/4"	32		
			1 1/2"	40		
			2"	50		
			2 1/2"	63		
			3"	80		
			4"	100		
			5"	125		
			6 1/4"	160		
			7"	180		
			8"	200		
			10"	250		
			12"	300		
13"	320					
<p>tie-rod tirante</p>	FPA FPC FPF FPH FPL FPV	FA 50 polyamide brass stainless steel poliammide ottone acciaio inox minimum distance between jacket and tie-rod = 0,8mm distanza minima tra camicia e tirante = 0,8mm	inch	mm		
			1 1/4"	32		
			1 1/2"	40		
			2"	50		
			2 1/2"	63		
			3"	80		
			4"	100		
			5"	125		
			6 1/4"	160		
			7"	180		
			8"	200		
			10"	250		
			12"	300		
13"	320					
<p>wide groove cava larga</p>	FTV	FA 52 nickel plated zamac zinc plated iron zama nichelato ferro zincato other dimensions on request altre dimensioni a richiesta	inch	mm		
				EURAL		
				CAMOZZI		
				FESTO		
				BOSCH		
				JOUCOMATIC		
				METAL WORK		
				UNIVER		
				CAMOZZI		
				ARTEC		
				VESTA		
	DIOTTALLEVI					
	PNEUMAX					
<p>SMC groove cava SMC</p>	FPI FPM	FA 53 zinc plated iron brass ferro zincato ottone s	S			
			0 mm	FA53-01		
			4 mm	FA53-02		
<p>6 mm rail profilo 6 mm</p>	FPI FPM	FA 53 zinc plated iron brass ferro zincato ottone 				FA53-03

cylinder cilindro	switch interruttore	clamp materials and drawing materiali e disegno staffa														
			Ø piston mm Ø pistone inch	20 (3/4")	25 (1")	32 (1 1/4")	40 (1 1/2")	50 (2")	63 (2 1/2")	80 (3")	100 (4")	125 (5")	160 (6 1/4")	200 (8")		
			manufacturer produttore	part number codice ordine												
 <p>mickey estruso</p>	FPA FPC FPF FPH FPL FPV	FA 54 aluminium plastic zinc plated iron alluminio plastica ferro zincato 	Eural 80	FA54-0201	FA54-0201	FA54-0203	FA54-0203	FA54-0305	FA54-0305	FA54-0404	FA54-0404	FA54-0508				
			Eural 89			FA54-0203	FA54-0203	FA54-0305	FA54-0305	FA54-0404	FA54-0404	FA54-0508	FA54-0508	FA54-0511		
			Eural 90			FA54-0203	FA54-0203	FA54-0305	FA54-0305	FA54-0404	FA54-0404					
			CAMOZZI			FA54-0203	FA54-0203	FA54-0305	FA54-0305	FA54-0404	FA54-0404					
			PNEUMAX			FA54-0203	FA54-0203	FA54-0305	FA54-0305	FA54-0405	FA54-0405	FA54-0509	FA54-0509	FA54-0510		
			UNIVER			FA54-0203	FA54-0203	FA54-0203	FA54-0407	FA54-0407	FA54-0407	FA54-0407				
			VESTA			FA54-0203	FA54-0203	FA54-0305	FA54-0305	FA54-0404	FA54-0404	FA54-0508				
			METALWORK			FA54-0203	FA54-0203	FA54-0305	FA54-0305	FA54-0404	FA54-0404	FA54-0508				
			Ø piston mm Ø pistone inch	20 (3/4")	25 (1")	32 (1 1/4")	40 (1 1/2")	50 (2")	63 (2 1/2")	80 (3")	100 (4")	125 (5")	160 (6 1/4")	200 (8")		
			manufacturer produttore	part number codice ordine												
 <p>mickey estruso</p>	FEK FFA FFV FGV	FA 55 aluminium plastic zinc plated iron alluminio plastica ferro zincato 	Eural 80	FA55-0201	FA55-0201	FA55-0203	FA55-0203	FA55-0305	FA55-0305	FA55-0404	FA55-0404	FA55-0508				
			Eural 89			FA55-0203	FA55-0203	FA55-0305	FA55-0305	FA55-0404	FA55-0404	FA55-0508	FA55-0508	FA55-0511		
			Eural 90			FA55-0203	FA55-0203	FA55-0305	FA55-0305	FA55-0404	FA55-0404					
			CAMOZZI			FA55-0203	FA55-0203	FA55-0305	FA55-0305	FA55-0404	FA55-0404					
			PNEUMAX			FA55-0203	FA55-0203	FA55-0305	FA55-0305	FA55-0405	FA55-0405	FA55-0509	FA55-0509	FA55-0510		
			UNIVER			FA55-0203	FA55-0203	FA55-0203	FA55-0407	FA55-0407	FA55-0407	FA55-0407				
			VESTA			FA55-0203	FA55-0203	FA55-0305	FA55-0305	FA55-0404	FA55-0404	FA55-0508				
			METALWORK			FA55-0203	FA55-0203	FA55-0305	FA55-0305	FA55-0404	FA55-0404	FA55-0508				
				inch	mm											
 <p>tie-rod tirante</p>	FTV	FA 56 aluminium zinc plated iron alluminio ferro zincato 		1 1/4"	32								FA56-01			
				1 1/2"	40										FA56-02	
				2"	50											
				2 1/2"	63											
				3"	80											FA56-03
				4"	100											
see vedere FA21 FA23 FA45		FA 60 polyamide poliammide 												FA60-01		
 <p>wide groove cava larga</p>	FPC FPF FPV	FA 61 polyamide poliammide 	manufacturer produttore	part number codice ordine												
			EURAL													
			CAMOZZI													
			FESTO													
			BOSCH													
			JOUCOMATIC													
			METAL WORK													
PNEUMAX																
VESTA																
SMC																
NUMATICS																
		other dimensions on request altre dimensioni a richiesta													FA61-01	
															FA61-02	
															FA61-03	
															FA61-04	
															FA61-05	

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cylinder cilindro	switch interruttore	clamp materials and drawing materiali e disegno staffa	description descrizione	part number codice ordine
	any tutti	<p>iron copper ferro rame</p> 	<p>Protection protects the switch in case of installation with capacitive loads (i.e.: long cables); it compensates for approximately 30 m of cable without causing voltage drop.</p> <p>Protezione protegge l'interruttore nelle installazioni con carichi capacitivi (per es.: cavi lunghi); compensa circa 30 m di cavo senza provocare cadute di tensione.</p>	1248
	any tutti	<p>soft thermoplastic plastica morbida</p> 	<p>Marking sleeve for cable diameters 2.5 – 4 mm, transparent, used to mark cables with numbers and letters.</p> <p>Tubetto portanumeri per diametri cavo 2.5 – 4 mm, trasparente, utilizzato per marcare i cavi con numeri e lettere.</p>	1408-230
 groove Ø 6 cava Ø 6  SMC groove cava SMC  6 mm rail profilo 6 mm	FP...	<p>polyamide poliammide</p> 	<p>Cable-clamp to fix the switch cable in the 6 mm groove.</p> <p>Fermacavo per fissare il cavo dell'interruttore nella cava da 6 mm.</p>	1727
 groove Ø 3 cava Ø 3	FSA FSV	<p>polyamide poliammide</p> 	<p>Cable-clamp to fix the switch cable in the 3 mm groove.</p> <p>Fermacavo per fissare il cavo dell'interruttore nella cava da 3 mm.</p>	1728

No toxic, halogen free

Application. Very good resistance to fire, low acid gas emission, low toxicity index. According to IEC60092 "Electrical installation in ships". Ask to our technical office for specific behaviour.

Typical working voltage: 300V. **Test voltage:** 2.000V.

Note to table:

(b) colours: ye=yellow.

Cable code Codice cavo	n° of wires n° cond.	Stranding Formazione IEC 60228 VDE 0295 mm ² (n° x mm)	Ext. diam Diam est. mm	Sheath colour Colore guaina RAL (b)	Wires colour Colore conduttori (b)	Norms Norme (c)	Refer. or style Rifer. o stile (c)	Static application Applicazione statica °C	Dynamic application Applicazione dinamica °C	Note Nota
A423	1	0,50 (16 x 0,20)	1,50		ye	IEC	60092	-55...+125	-25...+105	Thin and strong insulation. No sheath. Isolamento sottile e resistente. Senza guaina.

Atossici, senza alogeni

Impiego. Ottima resistenza al fuoco, bassa emissione di gas acidi, basso indice di tossicità. Conforme a norme IEC60092 "Istallazioni elettriche navali". Chiedere al nostro ufficio tecnico per comportamenti specifici.

Tensione tipica di lavoro: 300V. **Tensione di prova:** 2.000V

Note alla tabella:

(b) colori: ye=giallo

Halogen free PUR – unshielded

Description. Sheath in matt polyether polyurethane (PUR). Halogen free insulation and sheath.

Application. Well suited to mobile installations. Very good resistance in general to chemical agents and oils. Doesn't emit corrosive substances in case of fire. Ask to our technical office for specific behaviour. Low capacity.

Typical working voltage: 300V. **Test voltage:** 1.500V.

Note to table:

(b) colours: bn=brown, bu=blue, bk=black, wh=white.

Cable code Codice cavo	n° of wires n° cond.	Stranding Formazione IEC 60228 VDE 0295 mm ² (n° x mm)	Ext. diam Diam est. mm	Sheath colour Colore guaina RAL (b)	Wires colour Colore conduttori (b)	Norms Norme (c)	Refer. or style Rifer. o stile (c)	Static application Applicazione statica °C	Dynamic application Applicazione dinamica °C	Note Nota
C165	2	0,14 (18 x 0,10)	2,3	bk 9005	bn bu			-40...+ 80	-40...+ 80	
C167	3	0,14 (18 x 0,10)	2,3	bk 9005	bn bu bk			-40...+ 80	-40...+ 80	
C144	3	0,14 (18 x 0,10)	2,8	gy 7001	bn bu bk			-40...+ 80	-40...+ 80	
C145	3	0,14 (18 x 0,10)	2,8	bk 9005	bn bu bk			-40...+ 80	-40...+ 80	

PUR senza alogeni – senza schermo

Descrizione. Guaina in poliuretano polietere opaco (PUR). Isolante e guaina senza alogeni.

Impiego. Ottimo comportamento in posa mobile. Ottima resistenza in genere agli agenti chimici e agli idrocarburi. Non emette sostanze corrosive in caso di incendio. Chiedere al nostro ufficio tecnico per comportamenti specifici. Bassa capacità.

Tensione tipica di lavoro: 300V. **Tensione di prova:** 1.500V.

Note alla tabella:

(b) colori: bn=marrone, bu=blu, bk=nero, wh=bianco.

PVC – unshielded

Description. Insulation: PVC. Sheath: PVC

Application. Mobile installations with modest movements. Occasional contact with oil. Ask to our technical office for specific behaviour.

Typical working voltage: 300V. **Test voltage:** 1.500V

Note to table:

(b) colours: bn=brown, bu=blue, bk=black, wh=white.

(c) norms: UL = UL recognized (United States) / CSA = CSA recognized (Canada) / IEC = according to IEC

Cable code Codice cavo	n° of wires n° cond.	Stranding Formazione IEC 60228 VDE 0295 mm ² (n° x mm)	Ext. diam Diam est. mm	Sheath colour Colore guaina RAL (b)	Wires colour Colore conduttori (b)	Norms Norme (c)	Refer. or style Rifer. o stile (c)	Static application Applicazione statica °C	Dynamic application Applicazione dinamica °C	Note Nota
N107	2	0,14 (18 x 0,10)	2,8	bk 9005	bn bu			-25...+ 90	-15...+ 90	
N111	2	0,14 (18 x 0,10)	2,8	gy 7035	bn bu	IEC	60332-3 cat A	-25...+ 90	-15...+ 90	CEI 20/22 II
N108	3	0,14 (18 x 0,10)	2,8	bk 9005	bn bu bk			-25...+ 90	-15...+ 90	
N112	3	0,14 (18 x 0,10)	2,8	gy 7035	bn bu bk	IEC	60332-3 cat A	-25...+ 90	-15...+ 90	CEI 20/22 II
N209	2	0,25 (32 x 0,10)	3,5	bk 9005	bn bu			-25...+ 90	-15...+ 90	
N205	3	0,25 (32 x 0,10)	3,8	bk 9005	bn bu bk			-25...+ 90	-15...+ 90	
N207	3	0,25 (32 x 0,10)	4,4	bk 9005	bn bu bk	UL-CSA	2464	-25...+ 80	-15...+ 80	
N225	3	0,25 (32 x 0,10)	3,8	gy 7035	bn bu bk	IEC	60332-3 cat A	-25...+ 90	-15...+ 90	CEI 20/22 II

PVC– senza schermo

Descrizione. Isolante: PVC. Guaina: PVC

Impiego. Posa mobile con movimenti modesti. Occasionale contatto con olio. Chiedere al nostro ufficio tecnico per comportamenti specifici.

Tensione tipica di lavoro: 300V. **Tensione di prova:** 1.500V.

Note alla tabella:

(b) colori: bn=marrone, bu=blu, bk=nero, wh=bianco.

(c) norme: UL = UL recognized (Stati Uniti) / CSA = CSA recognized (Canada) / IEC = conforme a IEC

High / Low Temperature

Description. Cables of different materials, all with good behaviour to temperature, have been grouped under this section.

Application. Where high or low temperature resistance is required.

Typical working voltage: 300V **Test voltage:** 1.500V.

Note to table:

(b) colours: bn=brown, bu=blue, bk=black, wh=white.

(c) norms: UL = UL recognized (United States) / CSA = CSA recognized (Canada) / IEC = according to IEC

Cable code Codice cavo	n° of wires n° cond.	Stranding Formazione IEC 60228 VDE 0295 mm ² (n° x mm)	Ext. diam Diam est. mm	Sheath colour Colore guaina RAL (b)	Wires colour Colore conduttori (b)	Norms Norme (c)	Refer. or style Rifer. o stile (c)	Static application Applicazione statica °C	Dynamic application Applicazione dinamica °C	Note Nota
S131	2	0,14 (18 x 0,10)	3,4	bk 9005	bn bu			-40...+120	-25...+120	Special compound, armoured with stainless steel. Mescola speciale, armato treccia inox
S152	2	0,14 (18 x 0,10)	2,8	bk 9005	bn bu			-40...+120	-25...+120	Special compound Mescola speciale
S215	3	0,25 (32 x 0,10)	4,3	bk 9005	bn bu bk	UL	2661	-25...+105	-15...+105	PVC high temperature alta temperatura
S233	3	0,25 (8 x 0,20)	4,5	bk 9005	bn bu wh			-60...+180		Silicon

Alta / Bassa Temperatura

Descrizione. Sono stati raccolti sotto questa voce cavi di materiali diversi, tutti con buon comportamento alla temperatura.

Impiego. Dove è richiesta resistenza alle alte o alle basse temperature

Tensione tipica di lavoro: 300V. **Tensione di prova:** 1.500V.

Note alla tabella:

(b) colori: bn=marrone, bu=blu, bk=nero, wh=bianco.

(c) norme: UL = UL recognized (Stati Uniti) / CSA = CSA recognized (Canada) / IEC = conforme a IEC