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HARTING M17 – Metric Circular Connectors

Selection Guide

HARTING Metric Circular Connectors

HARTING offers Metric Circular Connectors from M5 up to M23.

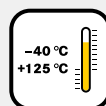
M5 to M12 solutions are mostly used in sensor and actuator applications. They transfer Data – Signal – Power in smaller applications. Size 15, M17 and M23 are mainly used in Motion & Drive applications, like encoder and power connections on drive systems & smaller robots.



Modular product portfolio enables many combinations



Conventional mating faces enable compatibility with competitors



Temperature range from -40°C to +125°C



M17 connectors and contacts are lead free

Key figures				
	Signal		Power	
	8 Pin	12 Pin	17 Pin	5+3+PE
Nominal Voltage	63 V	32 V	63 V	63 / 630 V
Nominal Current	8 A	7 A	3,6 A	3,6 / 14 A
Current @ 40 °C	11,5 A	11 A	5,5 A	3,6 / 17,5 A
Cross section	0.08 – 1 mm ²	0.08 – 1 mm ²	0.08 – 0.56 mm ²	0.08 – 0.56 mm ² / 0.08 – 1.5 mm ²
Contacts	1 mm	1 mm	0.6 mm	5x0.6 mm / 4x1 mm
	Power			
	3+PE	5+PE	6+PE	7+PE
Nominal Voltage	630 V	630 V	630 V	630 V
Nominal Current	20 A	14 A	14 A	14 A
Current @ 40 °C	26 A	14 A	13 A	12 A
Cross section	0.25 – 2.5 mm ²	0.08 – 1 mm ²	0.08 – 1 mm ²	0.08 – 1 mm ²
Contacts	1.5 mm	1 mm	1 mm	1 mm

M17 – hoods/housings				
Termination Technology	Image	Description		Part-No
Device Side		Coupling connector Housing	M17-COUPH-SCR/BAY-STR -3.5-6.5 mm	21 17 200 1100
			M17-COUPH-SCR/BAY-STR-6.5-10 mm	21 17 200 1200
			M17-COUPH-SCR/BAY-STR-10-13 mm	21 17 200 1300
		Panel Feed Through Housing with M20x1,5 Locking nut	M17-PFTH-SCR/BAY-STR-M20X1.5-3.5-6.5	21 17 200 3100
			M17-PFTH-SCR/BAY-STR-M20X1.5-6.5-10	21 17 200 3200
			M17-PFTH-SCR/BAY-STR-M20X1.5-6.5-10	21 17 200 3300
		Straight Device Flange 21x21mm	M17-DEVH-SCR/BAY-STR-FM-21X21-2.7	21 17 200 4100
		Straight Device Flange M18x0,75	M17-DEVH-SCR/BAY-STR-FM-M18X0.75	21 17 200 4600
		Device Flange Housing angled turnable	M17 Housing, flange 21x21 mm, angled	21 17 200 6400
			M17 Housing, flange 25x25 mm, angled	21 17 200 6200
			M17 Housing, flange 28x28 mm, angled	21 17 200 6300
Cable Side		Cable connector Housing with Screw locking	M17 Hood, screw, straight, 3,5-6,5 mm	21 17 100 0100
			M17 Hood, screw, straight, 6,5-10 mm	21 17 100 0200
			M17 Hood, screw, straight, 10-13,5 mm	21 17 100 0300
		Cable connector Housing with Bayonet locking	M17 Hood, har-lock, straight, 3,5-6,5 mm	21 17 200 0100
			M17 Hood, har-lock, straight, 6,5-10 mm	21 17 200 0200
			M17 Hood, har-lock, straight, 10-13,5 mm	21 17 200 0300

M17 – Inserts				
Termination Technology	Image	Description		Part-No
Crimp termination	Signal inserts			
		8-poles	M17-INS-SIG-CRT-8P-MA	21 17 501 0000
			M17-INS-SIG-CRT-8P-FE	21 17 502 0000
		12-poles	M17-INS-SIG-CRT-12P-MA	21 17 503 0000
			M17-INS-SIG-CRT-12P-FE	21 17 504 0000
		17-Poles	M17-INS-SIG-CRT-17P-MA	21 17 505 0000
			M17-INS-SIG-CRT-17P-FE	21 17 506 0000
	Power inserts			
		3+PE	M17-INS-POW-CRT-4P-3+PE-MA	21 17 521 0000
			M17-INS-POW-CRT-4P-3+PE-MA	21 17 522 0000
		5+PE	M17-INS-POW-CRT-6P-5+PE-MA	21 17 523 0000
			M17-INS-POW-CRT-6P-5+PE-FE	21 17 524 0000
		6+PE	M17-INS-POW-CRT-7P-6+PE-MA	21 17 525 0000
			M17-INS-POW-CRT-7P-6+PE-FE	21 17 526 0000
		7+PE	M17-INS-POW-CRT-8P-7+PE-MA	21 17 527 0000
			M17-INS-POW-CRT-8P-7+PE-FE	21 17 528 0000
		5+3+PE	M17-INS-HYB-CRT-9P-5+3+PE-MA	21 17 529 0000
			M17-INS-HYB-CRT-9P-5+3+PE-FE	21 17 530 0000

M17 – crimp contacts					
Termination Technology	Image	Description			Part-No
Crimp contacts		0.6 mm crimp contacts	male	0,08-0,14 mm ²	21 17 061 0000
				0,25-0,5 mm ²	21 17 063 0000
			female	0,08-0,14 mm ²	21 17 062 0000
				0,25-0,5 mm ²	21 17 064 0000
		1 mm crimp contacts	male	0,08-0,14 mm ²	21 17 065 0000
				0,25-0,5 mm ²	21 17 067 0000
				0,75-1,0 mm ²	21 17 069 0000
			female	0,08-0,14 mm ²	21 17 066 0000
				0,25-0,5 mm ²	21 17 068 0000
				0,75-1,0 mm ²	21 17 070 0000
		1 mm crimp contacts only suitable for 5+3+PE	male	1,5 mm ²	21 17 071 0000
			female	1,5 mm ²	21 17 072 0000
		1.5 mm crimp contacts	male	0,25-0,5 mm ²	21 17 073 0000
				0,75-1,0 mm ²	21 17 075 0000
				1,5-2,5 mm ²	21 17 077 0000
			female	0,25-0,5 mm ²	21 17 074 0000
				0,75-1,0 mm ²	21 17 076 0000
				1,5-2,5 mm ²	21 17 078 0000

M 17 – accessories				
Termination Technology	Image	Description		Part-No
Protection cover		M17 Protection cover IP40 – Inter. lock.		21 17 000 0001
		M17 Protection cover IP40 –Exter. Lock.		21 17 000 0002

Imprint:

This flyer was created on behalf of the HARTING Technology Group.

Responsible for the content:

HARTING Electronics GmbH
Marienwerderstr. 3
32339 Espelkamp
Tel: +49 (0) 5772-47 97200
electronics@HARTING.com

Responsible for layout & design:

HARTING Stiftung & Co KG.
Marienwerder Str. 3
32339 Espelkamp
Tel.: +49 (0)5772-47 0

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