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## **HARTING** Selection Guide for the M8/M12 cabling range

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# In just few steps to complete cabling solutions – with the Selection Guide

With this Selection Guide you get an easy tool, which supports you in designing your Smart Network Infrastructure quick, reliable and suitable for your requirements. In the topic Smart Network Infrastructure, HARTING is bundling their activities and products for passive and active network infrastructure for Industry-Applications.

Data network cabling divides into profil-specific solutions, 4-wire and suitable up to 100 Mbit/s (Fast Ethernet) and 8-wire solutions suitable for Gigabit Ethernet and further applications.

The profil-specific cabling solutions follow automation protocols and installation guidelines most common in the industry and in application areas near to the industry.

The 8-wired cabling solutions broaden the field of application from Fast Ethernet (100 Mbit/s) to Gigabit Ethernet and beyond e.g. 10 GB. At the same time the mentioned cables and connectors meet the standards for structured cabling according ISO/IEC 11 801 and according ISO/IEC 24 702 especially for installations in industrial buildings and similar applications.



## Incomplete part numbers

In some cases you will find incomplete part numbers in this Selection Guide. Please fill in at all positions where you find “xxx” as follows:

e.g. part number is 21 34 800 0380 xxx

	cable lengths			cable lengths		
xxx = 001	0.1 m	available lengths in 0.1 m steps	xxx = 110	11.0 m	available lengths in 1.0 m steps	
xxx = 002	0.2 m		xxx = 120	12.0 m		
xxx = 003	0.3 m		xxx = 130	13.0 m		
...	...		...	...		
...	...		xxx = 380	38.0 m		
xxx = 098	9.8 m	xxx = 390	39.0 m			
xxx = 099	9.9 m	xxx = 400	40.0 m			
xxx = 100	10.0 m					

			Mating face, coding	Description	Part number
M8 cable assemblies and components	M8 single ended cordsets		 <p>A-coding Mating face acc. to IEC 61076-2-101</p>	M8 cable assembly, 3 poles, male, straight, PVC	21 34 800 0380 xxx
				M8 cable assembly, 3 poles, female, straight, PUR	21 34 810 0388 xxx
				M8 cable assembly, 3 poles, female, angled, PVC	21 34 830 0380 xxx
				M8 cable assembly, 3 poles, female, angled, PUR	21 34 830 0388 xxx
				M8 cable assembly, 4 poles, male, straight, PVC	21 34 800 0481 xxx
				M8 cable assembly, 4 poles, female, straight, PUR	21 34 810 0481 xxx
				M8 cable assembly, 4 poles, female, angled, PVC	21 34 830 0481 xxx
				M8 cable assembly, 4 poles, female, angled, PUR	21 34 830 0489 xxx
	M8 double ended cordsets		 <p>A-coding Mating face acc. to IEC 61076-2-101</p>	M8 cable assembly, 3 poles, male/female, straight, PVC	21 34 808 1380 xxx
				M8 cable assembly, 3 poles, male/female, straight, PUR	21 34 808 1388 xxx
				M8 cable assembly, 3 poles, male/female, straight/angled, PVC	21 34 808 3380 xxx
				M8 cable assembly, 3 poles, male/female, straight/angled, PUR	21 34 808 3388 xxx
				M8 cable assembly, 4 poles, male/female, straight, PVC	21 34 808 1481 xxx
				M8 cable assembly, 4 poles, male/female, straight, PUR	21 34 808 1489 xxx
	M8 connectors		 <p>A-coding Mating face acc. to IEC 61076-2-101</p>	HARAX® M8-XS, 3 poles, male, straight, for 0.1 - 0.14 mm <sup>2</sup>	21 02 159 1305
				HARAX® M8-S, 3 poles, male, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 02 151 1305
				HARAX® M8-S, 3 poles, female, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 02 151 2305
				HARAX® M8-S, 4 poles, male, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 02 151 1405
				HARAX® M8-S, 4 poles, female, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 02 151 2405
	M8 panel feed-throughs		 <p>A-coding Mating face acc. to IEC 61076-2-101</p>	M8 panel receptacle, 3 poles, female, length = 0.5 m	21 02 357 6305
				M8 panel receptacle, 4 poles, female, length = 0.5 m	21 02 357 6405


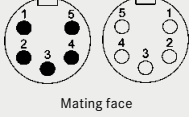

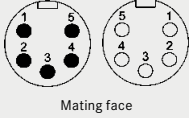

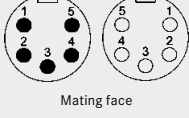

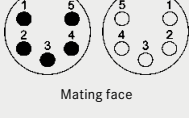
			Mating face, coding	Description	Part number
M12 A-coded cable assemblies and components	M12 A-coded single ended cordsets		<p>A-coded Mating face acc. to IEC 61076-2-101</p> <p>A-coded Mating face acc. to IEC 61076-2-101</p> <p>A-coded Mating face acc. to IEC 61076-2-101</p>	M12 cable assembly, A-coded, 3 poles, male, straight, PVC grey, 3 x 0.34 mm <sup>2</sup>	21 34 840 0383 xxx
				M12 cable assembly, A-coded, 3 poles, female, straight, PVC grey, 3 x 0.34 mm <sup>2</sup>	21 34 850 0383 xxx
				M12 cable assembly, A-coded, 3 poles, male, straight, PUR black	21 34 850 0390 xxx
				M12 cable assembly, A-coded, 3 poles, female, straight, PVC grey	21 34 870 0383 xxx
				M12 cable assembly, A-coded, 3 poles, female, straight, PUR black	21 34 870 0390 xxx
				M12 cable assembly, A-coded, 4-poles, male, straight, PVC grey	21 34 840 0484 xxx
				M12 cable assembly, A-coded, 4 poles, female, straight, PVC grey	21 34 850 0484 xxx
				M12 cable assembly, A-coded, 4 poles, female, straight, PUR black	21 34 850 0491 xxx
				M12 cable assembly, A-coded, 4 poles, female, angled, PVC grey	21 34 860 0484 xxx
				M12 cable assembly, A-coded, 4 poles, female, angled, PUR black	21 34 860 0491 xxx
				M12 cable assembly, A-coded, 5 poles, male, straight, PVC grey	21 34 840 0585 xxx
				M12 cable assembly, A-coded, 5 poles, female, straight, PVC grey	21 34 850 0585 xxx
				M12 cable assembly, A-coded, 5 poles, female, angled, PVC grey	21 34 870 0585 xxx
				M12 cable assembly, A-coded, 8 poles, male, straight, PVC grey	21 34 840 0882 xxx
				M12 cable assembly, A-coded, 8 poles, female, straight, PVC grey	21 34 850 0882 xxx
				M12 cable assembly, A-coded, 12 poles, male, straight, PVC grey	21 34 840 0079 xxx
				M12 cable assembly, A-coded, 12 poles, male, angled, PVC grey	21 34 860 0079 xxx
				M12 cable assembly, A-coded, 12 poles, female, straight, PVC grey	21 34 850 0079 xxx
				M12 cable assembly, A-coded, 12 poles, female, straight, PUR black	21 34 850 0078 xxx
				M12 cable assembly, A-coded, 12 poles, female, angled, PVC grey	21 34 870 0079 xxx
M12 cable assembly, A-coded, 12 poles, female, angled, PUR black	21 34 870 0078 xxx				
M12 cable assembly, A-coded, 5 poles, male, straight, press and go	21 33 100 0502 xxx				
M12 A-coded double ended cordsets		<p>A-coded Mating face acc. to IEC 61076-2-101</p> <p>A-coded Mating face acc. to IEC 61076-2-101</p> <p>A-coded Mating face acc. to IEC 61076-2-101</p>	M12 cable assembly, A-coded, 3 poles, female, straight, PVC grey	21 34 848 5383 xxx	
			M12 cable assembly, A-coded, 3 poles, female, straight, PUR black	21 34 848 5390 xxx	
			M12 cable assembly, A-coded, 4 poles, female, straight, PVC grey	21 34 848 5484 xxx	
			M12 cable assembly, A-coded, 4 poles, female, angled, PVC grey	21 34 848 7484 xxx	
			M12 cable assembly, A-coded, 4 poles, female, straight, PUR black	21 34 848 5491 xxx	
			M12 cable assembly, A-coded, 4 poles, female, angled, PUR black	21 34 848 7491 xxx	
			M12 cable assembly, A-coded, 5 poles, female, straight, PVC grey	21 34 848 5585 xxx	
			M12 cable assembly, A-coded, 8 poles, female, straight, PVC grey	21 34 848 5882 xxx	
			M12 cable assembly, A-coded, 12 poles, male / female, straight, PVC grey	21 34 848 5079 xxx	
			M12 cable assembly, A-coded, 12 poles, male / female, straight, PUR black	21 34 848 5078 xxx	
			M12 cable assembly, A-coded, 12 poles, male / female, angled, PUR black	21 34 868 7078 xxx	
			M12 cable assembly, A-coded, 5 poles, male, straight, press and go	21 33 101 0502 xxx	

			Mating face, coding	Description	Part number			
M 12 A-coded cable assemblies and components	M 12 A-coded connectors		<p>A-coding Mating face acc. to IEC 61076-2-101</p> <p>A-coding Mating face acc. to IEC 61076-2-101</p>	HARAX® M 12-S, A-coded, 4 poles, male, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 03 111 1405			
				HARAX® M 12-S, A-coded, 4 poles, male, straight, for 0.25 - 0.50 mm <sup>2</sup>	21 03 112 1405			
				HARAX® M 12-S, A-coded, 4 poles, female, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 03 111 2405			
				HARAX® M 12-S, A-coded, 4 poles, female, straight, for 0.25 - 0.50 mm <sup>2</sup>	21 03 112 2405			
				HARAX® M 12-S, A-coded, 3 poles, male, straight, for 0.34 - 0.75 mm <sup>2</sup> (assignment 3, 4, 5)	21 03 212 1400			
				HARAX® M 12-S, A-coded, 3 poles, male, straight, for 0.34 - 0.75 mm <sup>2</sup> (assignment 1, 3, 4)	21 03 212 1306			
				HARAX® M 12-S, A-coded, 4 poles, male, straight, for 0.34 - 0.75 mm <sup>2</sup>	21 03 212 1305			
				HARAX® M 12-S, A-coded, 4 poles, male, straight, to 2.6 mm core diameter	21 03 212 1407			
				HARAX® M 12-S, A-coded, 5 poles, male, straight, for 0.34 - 0.50 mm <sup>2</sup>	21 03 272 1505			
				HARAX® M 12-S, A-coded, 3 poles, female, straight, for 0.34 - 0.75 mm <sup>2</sup> (assignment 3, 4, 5)	21 03 212 2400			
				HARAX® M 12-S, A-coded, 3 poles, female, straight, for 0.34 - 0.75 mm <sup>2</sup> (assignment 1, 3, 4)	21 03 212 2306			
				HARAX® M 12-S, A-coded, 4 poles, female, straight, for 0.34 - 0.75 mm <sup>2</sup>	21 03 212 2305			
				HARAX® M 12-S, A-coded, 4 poles, female, straight, to 2.6 mm core diameter	21 03 212 2407			
				HARAX® M 12-S, A-coded, 5 poles, female, straight, for 0.34 - 0.50 mm <sup>2</sup>	21 03 272 2505			
				M 12 slim design, A-coded, 5 poles, male, straight, with crimp termination	21 03 821 1505			
				M 12 panel feed-throughs single ended, A-coded			M 12 panel receptacle, A-coded, 3 poles, female, length = 0.5 m	21 03 317 6305
							M 12 panel receptacle, A-coded, 4 poles, female, length = 0.5 m	21 03 317 6405
M 12 panel receptacle, A-coded, 5 poles, female, length = 0.5 m	21 03 317 6505							
M 12 panel receptacle, A-coded, 8 poles, female, length = 0.5 m	21 03 317 6805							
M 12 panel receptacle, A-coded, 12 poles, female, length = 0.5 m	21 03 353 2C00							
M 12 B-coded cable assemblies and components	M 12 B-coded single ended cordsets		<p>B-coding Mating face acc. to IEC 61076-2-101</p>	M 12 cable assembly, B-coded, 4 poles, male, straight, PVC	21 34 880 0486 xxx			
				M 12 cable assembly, B-coded, 4 poles, male, angled, PVC	21 34 900 0486 xxx			
				M 12 cable assembly, B-coded, 4 poles, female, straight, PVC	21 34 890 0486 xxx			
				M 12 cable assembly, B-coded, 4 poles, female, straight, PUR	21 34 890 0487 xxx			
				M 12 cable assembly, B-coded, 4 poles, female, angled, PVC	21 34 910 0486 xxx			
				M 12 cable assembly, B-coded, 4 poles, female, angled, PUR	21 34 910 0487 xxx			
	M 12 B-coded double ended cordsets			M 12 cable assembly, B-coded, 4 poles, male/female, straight, PVC	21 34 888 9486 xxx			
				M 12 cable assembly, B-coded, 4 poles, male/female, straight, PUR	21 34 888 9487 xxx			
				M 12 cable assembly, B-coded, 4 poles, male/female, angled, PUR	21 34 909 1487 xxx			
	M 12 B-coded connectors		<p>B-coding Mating face acc. to IEC 61076-2-101</p>	HARAX® M 12-L, B-coded, 2 poles, male, straight, for 0.25 - 0.34 mm <sup>2</sup>	21 03 241 1301			
				HARAX® M 12-L, B-coded, 2 poles, female, straight, for 0.25 - 0.34 mm <sup>2</sup>	21 03 241 2301			
				M 12, B-coded, 5 poles, male, straight, with crimp termination	21 03 841 1505			
M 12, B-coded, 5 poles, female, straight, with crimp termination				21 03 841 2505				
M 12 panel feed-throughs single ended, B-coded			<p>B-coding Mating face acc. to IEC 61076-2-101</p>	M 12 panel receptacle, B-coded, 4 poles, female, length = 0.5 m	21 03 338 6405			

M12 D-coded cable assemblies and components

		Mating face, coding	Description	Part number
M12 D-coded single ended cordsets		<p>D-coding Mating face acc. to IEC 61076-2-101</p>	M12 cable assembly, D-coded, male, straight, PUR green	21 34 920 0477 xxx
			M12 cable assembly, D-coded, male, straight, PVC green	21 34 920 0405 xxx
			M12 cable assembly, D-coded, male, angled, PUR green	21 34 940 0477 xxx
			M12 cable assembly, D-coded, male, angled, PVC green	21 34 940 0405 xxx
			M12 cable assembly, D-coded, female, straight, PUR green	21 34 930 0477 xxx
			M12 cable assembly, D-coded, female, straight, PVC green	21 34 930 0405 xxx
			M12 cable assembly, D-coded, female, angled, PUR green	21 34 950 0477 xxx
			M12 cable assembly, D-coded, female, angled, PVC green	21 34 950 0405 xxx
			M12 cable assembly, D-coded, male, straight, PVC, press and go	21 33 090 0401 xxx
M12 D-coded double ended cordsets		<p>D-coding Mating face acc. to IEC 61076-2-101</p>	M12 cable assembly, D-coded, male, straight, PUR green	21 34 929 2477 xxx
			M12 cable assembly, D-coded, male, straight, PVC green	21 34 929 3405 xxx
			M12 cable assembly, D-coded, male / female, straight, PUR green	21 34 929 3477 xxx
			M12 cable assembly, D-coded, male, straight, PVC green	21 34 929 2405 xxx
			M12 cable assembly, D-coded, male, angled, PUR green	21 34 949 4477 xxx
			M12 cable assembly, D-coded, male, angled, PVC green	21 34 949 4405 xxx
			M12 cable assembly, D-coded, male, straight, press and go	21 33 090 9401 xxx
M12 D-coded connectors		<p>D-coding Mating face acc. to IEC 61076-2-101</p>	HARAX® M12-L, D-coded, 4 poles, male, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 03 281 1405
			HARAX® M12-L, D-coded, 4 poles, male, straight, for 0.34 - 0.50 mm <sup>2</sup>	21 03 282 1405
			HARAX® M12-L, D-coded, 4 poles, female, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 03 281 2405
			HARAX® M12-L, D-coded, 4 poles, female, straight, for 0.34 - 0.50 mm <sup>2</sup>	21 03 282 2405
			M12, D-coded, 4 poles, male, straight, with crimp termination	21 03 882 1405
			M12 slim design, D-coded, 4 poles, male, straight, with crimp termination	21 03 881 1405
			M12, D-coded, 4 poles, male, angled, with crimp termination	21 03 882 3405
			M12, D-coded, 4 poles, female, straight, with crimp termination	21 03 882 2405
			M12 preLink® housing, D-coded	20 82 000 1210
			M12 preLink® module, D-coded, 4 poles, male	20 82 005 1214
M12 panel feed-throughs single ended, D-coded		<p>D-coding Mating face acc. to IEC 61076-2-101</p>	M12 panel receptacle, D-coded, 4 poles, male, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 03 381 1425
			M12 panel receptacle, D-coded, 4 poles, female, straight, for 0.14 - 0.34 mm <sup>2</sup>	21 03 381 2425
			M12 panel receptacle, D-coded, 4 poles, male, straight, with crimp termination	21 03 882 1425
			M12 panel receptacle, D-coded, 4 poles, female, straight, with crimp termination	21 03 882 2425
			M12 panel receptacle, D-coded, 4 poles, male, straight, length = 0.5 m	21 03 371 1403
			M12 panel receptacle, D-coded, 4 poles, female, straight, length = 0.5 m	21 03 371 2403
			M12 panel receptacle, D-coded, 4 poles, female/RJ45, angled	21 03 381 4400
			M12 panel receptacle, D-coded, 4 poles, female/RJ45, straight	21 03 381 2400
			M12 panel receptacle, D-coded, 4 poles, male/RJ45, straight	21 03 371 1420
			M12 gender changer, D-coded, 4 poles, female/female	21 03 381 6405

7/8 inch cable assemblies and components

		Mating face, coding	Description	Part number
7/8" single ended cordsets			7/8" cable assembly, 2 poles + PE, female, straight, PVC grey, 3 x 1.5 mm <sup>2</sup>	21 34 970 0393 xxx
			7/8" cable assembly, 2 poles + PE, female, straight, PUR black, 3 x 1.5 mm <sup>2</sup>	21 34 970 0394 xxx
			7/8" cable assembly, 4 poles, female, straight, PVC grey, 4 x 1.5 mm <sup>2</sup>	21 34 970 0495 xxx
			7/8" cable assembly, 4 poles, female, straight, PUR black, 4 x 1.5 mm <sup>2</sup>	21 34 970 0496 xxx
			7/8" cable assembly, 4 poles, female, angled, PVC grey, 4 x 1.5 mm <sup>2</sup>	21 34 990 0495 xxx
			7/8" cable assembly, 4 poles, female, angled, PUR black, 4 x 1.5 mm <sup>2</sup>	21 34 990 0496 xxx
			7/8" cable assembly, 4 poles + PE, female, straight, PVC grey, 5 x 1.5 mm <sup>2</sup>	21 34 970 0597 xxx
			7/8" cable assembly, 4 poles + PE, female, straight, PUR black, 5 x 1.5 mm <sup>2</sup>	21 34 970 0598 xxx
			7/8" cable assembly, 4 poles + PE, female, angled, PVC grey, 5 x 1.5 mm <sup>2</sup>	21 34 990 0597 xxx
			7/8" cable assembly, 4 poles + PE, female, angled, PUR black, 5 x 1.5 mm <sup>2</sup>	21 34 990 0598 xxx
7/8" double ended cordsets			7/8" cable assembly, 4 poles, male/female, straight/straight, PVC grey, 4 x 1.5 mm <sup>2</sup>	21 34 969 7495 xxx
			7/8" cable assembly, 4 poles, male/female, straight/straight, PUR black, 4 x 1.5 mm <sup>2</sup>	21 34 969 7496 xxx
			7/8" cable assembly, 4 poles, male/female, straight/angled, PVC grey, 4 x 1.5 mm <sup>2</sup>	21 34 989 9495 xxx
			7/8" cable assembly, 4 poles, male/female, straight/angled, PUR black, 4 x 1.5 mm <sup>2</sup>	21 34 989 9496 xxx
			7/8" cable assembly, 4 poles + PE, male/female, straight/straight, PVC grey, 5 x 1.5 mm <sup>2</sup>	21 34 969 7597 xxx
			7/8" cable assembly, 4 poles + PE, male/female, straight/straight, PUR black, 5 x 1.5 mm <sup>2</sup>	21 34 969 7598 xxx
			7/8" cable assembly, 4 poles + PE, male/female, straight/angled, PVC grey, 5 x 1.5 mm <sup>2</sup>	21 34 989 9597 xxx
			7/8" cable assembly, 4 poles + PE, male/female, straight/angled, PUR black, 5 x 1.5 mm <sup>2</sup>	21 34 989 9598 xxx
7/8" connectors			7/8" HARAX® male	21 04 116 1505
			7/8" HARAX® female	21 04 116 2505
7/8" panel feed-throughs single ended			7/8" panel receptacle, 3 poles, male, length = 0.2 m	21 04 316 1305
			7/8" panel receptacle, 5 poles, male, length = 0.5 m	21 04 316 1505
			7/8" panel receptacle, 3 poles, female, length = 0.5 m	21 04 316 2301
			7/8" panel receptacle, 4 poles, female, length = 0.5 m	21 04 316 2401
			7/8" panel receptacle, 5 poles, female, length = 0.5 m	21 04 316 2501



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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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