



Pushing Performance



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HARTING Industrial Ethernet Switches Selection Guide

HARTING

Industrial Ethernet Switches

Communication in modern industrial facilities and vehicles is becoming increasingly complex. The Ethernet protocol is the communication basis for an exchange of data between systems or vehicles and modules. HARTING with its unmanaged Ha-VIS eCon switches provides manifold interfaces for this protocol. These devices have outstanding robustness and high performance.

This selection guide helps the user to quickly gain an overview of the switch portfolio from HARTING and to select the right solution for your own application. The selection guide leads you in a few steps to an "individual" network solution!

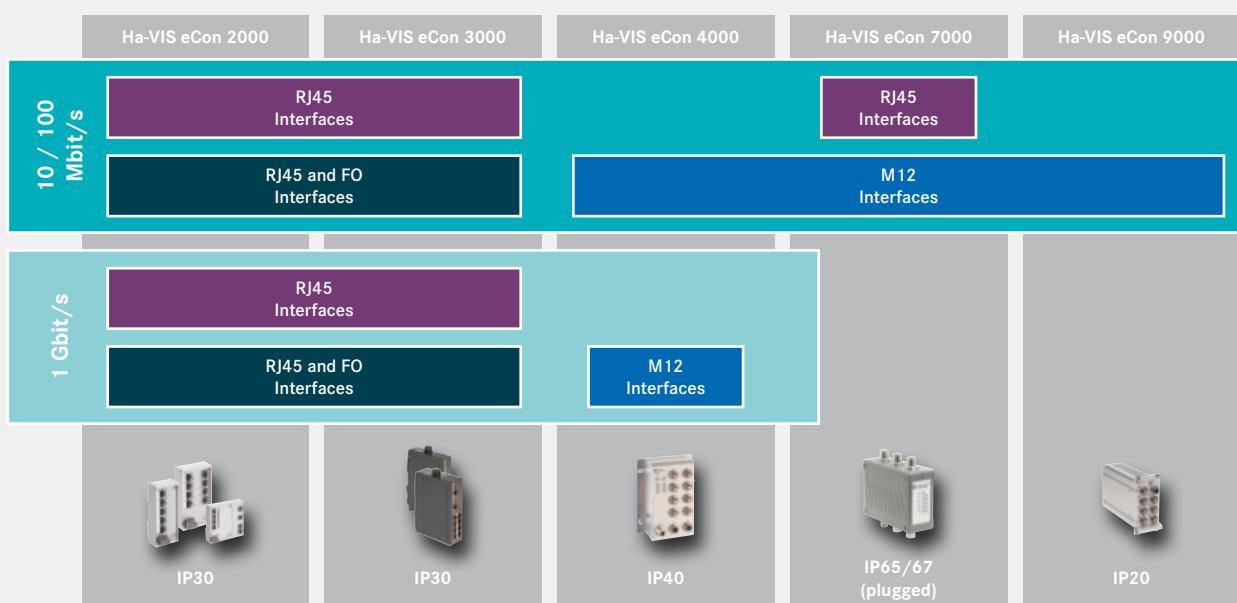
The overview is categorised according to the type of interface: Wide coloured stripes in the background indicate the data transmission technology. These are grouped into switches with RJ45, RJ45 + FO or M12 interfaces.

Furthermore, the speed of the switch is also important for the application. Coloured background windows therefore indicate the two categories of Gigabit and Fast Ethernet.

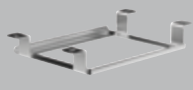
Other functions, such as Power over Ethernet (PoE) are also highlighted accordingly.

The names of the Ha-VIS series are derived from characteristics such as housing size, degree of protection, number of ports and speed. The product line ranges from "Ha-Vis eCon 2000" to "Ha-VIS eCon 9000". The series also have functional features, such as high speed, simple transmission and/or a large temperature range. Here, the field of application ranges between -40 and +70 degrees and is therefore very wide. With the help of the appropriate accessories - cable, assembly adapter or transceiver for fibre optic transmission - very different installation locations can be made available: in the electrical cabinet on the DIN rail, directly on the machine or in the vehicle.

Users can choose from the wide variety of HARTING possibilities to meet the exact requirements of their application.



Depiction	Characteristics	Number of ports	Product designation	Part no.
Ha-VIS eCon 2000 Series (IP30)				
	0 °C ... 55 °C	3 ports 4 ports 5 ports 8 ports 16 ports	Ha-VIS eCon 2030B-A Ha-VIS eCon 2040B-A Ha-VIS eCon 2050B-A Ha-VIS eCon 2080B-A Ha-VIS eCon 2160B-A	24 02 003 0010 24 02 004 0010 24 02 005 0010 24 02 008 0010 24 02 016 0010
	-40 °C ... +70 °C	3 ports 4 ports 5 ports 8 ports 16 ports	Ha-VIS eCon 2030BT-A Ha-VIS eCon 2040BT-A Ha-VIS eCon 2050BT-A Ha-VIS eCon 2080BT-A Ha-VIS eCon 2160BT-A	24 02 003 0000 24 02 004 0000 24 02 005 0000 24 02 008 0000 24 02 016 0000
	0 °C ... 55 °C 4 PoE / PoE+ ports	5 ports 8 ports	Ha-VIS eCon 2050B-A-P Ha-VIS eCon 2080B-A-P	24 02 005 0030 24 02 008 0030
	-40 °C ... +70 °C 4 PoE / PoE+ ports	5 ports 8 ports	Ha-VIS eCon 2050BT-A-P Ha-VIS eCon 2080BT-A-P	24 02 005 0020 24 02 008 0020
Ha-VIS eCon 3000 (IP30)				
	0 °C ... 55 °C	6 ports 8 ports 10 ports 16 ports	Ha-VIS eCon 3060B-A Ha-VIS eCon 3080B-A Ha-VIS eCon 3100B-A Ha-VIS eCon 3160B-A	24 03 006 0010 24 03 008 0010 24 03 010 0010 24 03 016 0010
	-40 °C ... +70 °C	6 ports 8 ports 10 ports 16 ports	Ha-VIS eCon 3060BT-A Ha-VIS eCon 3080BT-A Ha-VIS eCon 3100BT-A Ha-VIS eCon 3160BT-A	24 03 006 0000 24 03 008 0000 24 03 010 0000 24 03 016 0000
	0 °C ... 55 °C 4 PoE / PoE+ ports	6 ports 8 ports	Ha-VIS eCon 3060B-A-P Ha-VIS eCon 3080B-A-P	24 03 006 0030 24 03 008 0030
	-40 °C ... +70 °C 4 PoE / PoE+ ports	6 ports 8 ports	Ha-VIS eCon 3060BT-A-P Ha-VIS eCon 3080BT-A-P	24 03 006 0020 24 03 008 0020
	0 °C ... 55 °C 4 PoE / PoE+ ports Integr. DC/DC converter	6 ports 8 ports	Ha-VIS eCon 3060B-A-PP Ha-VIS eCon 3080B-A-PP	24 03 106 0030 24 03 108 0030
	-40 °C ... +70 °C 4 PoE / PoE+ ports Integr. DC/DC converter	6 ports 8 ports	Ha-VIS eCon 3060BT-A-PP Ha-VIS eCon 3080BT-A-PP	24 03 106 0020 24 03 108 0020
Ha-VIS eCon 7000 Series (IP65/67 plugged)				
	-40 °C ... +70 °C HAN 3A ports	5 ports 10 ports	Ha-VIS eCon 7050-A1 Ha-VIS eCon 7100-AA	20 70 305 3923 20 70 310 3924
Ha-VIS eCon 2000 Series (IP30)				
	0 °C ... 55 °C	5 ports 7 ports 16 ports	Ha-VIS eCon 2050GB-A Ha-VIS eCon 2070GB-A Ha-VIS eCon 2160GB-A	24 02 405 0010 24 02 407 0010 24 02 416 0010
	-40 °C ... +70 °C	5 ports 7 ports 16 ports	Ha-VIS eCon 2050GBT-A Ha-VIS eCon 2070GBT-A Ha-VIS eCon 2160GBT-A	24 02 405 0000 24 02 407 0000 24 02 416 0000
	0 °C ... 55 °C 4 PoE / PoE+ ports	5 ports 7 ports	Ha-VIS eCon 2050GB-A-P Ha-VIS eCon 2070GB-A-P	24 02 405 0030 24 02 407 0030
	-40 °C ... +70 °C 4 PoE / PoE+ ports	5 ports 7 ports	Ha-VIS eCon 2050GBT-A-P Ha-VIS eCon 2070GBT-A-P	24 02 405 0020 24 02 407 0020
Ha-VIS eCon 3000 Series (IP30)				
	0 °C ... 55 °C	5 ports 6 ports 7 ports 16 ports	Ha-VIS eCon 3050GB-A Ha-VIS eCon 3060GB-A Ha-VIS eCon 3070GB-A Ha-VIS eCon 3160GB-A	24 03 405 0010 24 03 406 0010 24 03 407 0010 24 03 416 0010
	-40 °C ... +70 °C	5 ports 6 ports 7 ports 16 ports	Ha-VIS eCon 3050GBT-A Ha-VIS eCon 3060GBT-A Ha-VIS eCon 3070GBT-A Ha-VIS eCon 3160GBT-A	24 03 405 0000 24 03 406 0000 24 03 407 0000 24 03 416 0000
	-40 °C ... +70 °C Advanced performance for vision camera applications	16 ports	Ha-VIS eCon 3160GX-A-A	24 13 416 0000
	0 °C ... 55 °C 4 PoE / PoE+ ports	5 ports 6 ports 7 ports	Ha-VIS eCon 3050GB-A-P Ha-VIS eCon 3060GB-A-P Ha-VIS eCon 3070GB-A-P	24 03 405 0030 24 03 406 0030 24 03 407 0030
	-40 °C ... +70 °C 4 PoE / PoE+ ports	5 ports 6 ports 7 ports	Ha-VIS eCon 3050GBT-A-P Ha-VIS eCon 3060GBT-A-P Ha-VIS eCon 3070GBT-A-P	24 03 405 0020 24 03 406 0020 24 03 407 0020
	0 °C ... 55 °C 4 PoE / PoE+ ports Integr. DC/DC converter	5 ports 6 ports 7 ports	Ha-VIS eCon 3050GB-A-PP Ha-VIS eCon 3060GB-A-PP Ha-VIS eCon 3070GB-A-PP	24 03 505 0030 24 03 506 0030 24 03 507 0030
	-40 °C ... +70 °C 4 PoE / PoE+ ports Integr. DC/DC converter	5 ports 6 ports 7 ports	Ha-VIS eCon 3050GBT-A-PP Ha-VIS eCon 3060GBT-A-PP Ha-VIS eCon 3070GBT-A-PP	24 03 505 0020 24 03 506 0020 24 03 507 0020
Han-Modular® Switch (IP20)				
	0 °C ... + 60 °C	4 ports	Han-Modular® Switch (IP20)	09 80 113 0400

ACCESSORY HA-VIS ECON 3000		RJ45					SYSTEM CABLES AND CABLE ASSEMBLIES				
1 GBIT/S							10/100 MBIT/S AND 1/10 GBIT/S				
Depiction		Characteristics		Product designation		Part no.					
Mounting adapter (basic element & cover) Ha-VIS MK 3000 für Ha-VIS eCon 3000											
		Flat wall mounting		Ha-VIS MK3000 Wall		24 98 100 0003					
		Flat mounting on the DIN rail with side port direction (vertical)		Ha-VIS MK3000 DINV		24 98 100 0004					
		Flat mounting on the DIN rail with port direction down (horizontal)		Ha-VIS MK3000 DINH		24 98 100 0005					
		Cover with width 25 mm		Ha-VIS MK3000 Cover25		24 98 100 0000					
		Cover with width 38 mm		Ha-VIS MK3000 Cover38		24 98 100 0001					
		Cover with width 60 mm		Ha-VIS MK3000 Cover60		24 98 100 0002					
Depiction		Characteristics		Length*	Item no. PUR (primarily top/bottom**)	Item no. PVC (primarily left/right***)					
HARTING Ethernet cabling: RJ45 cable assemblies, IP20, 4-wire											
		DualBoot® RJ45 PROFINET system cables Cat. 5		0.5 m	09 48 686 8004 005	09 48 686 8001 005					
				1.0 m	09 48 686 8004 010	09 48 686 8001 010					
				2.0 m	09 48 686 8004 020	09 48 686 8001 020					
				5.0 m	09 48 686 8004 050	09 48 686 8001 050					
				7.5 m	09 48 686 8004 075	09 48 686 8001 075					
				10.0 m	09 48 686 8004 100	09 48 686 8001 100					
		DualBoot® RJ45 preLink® system cables Cat. 5		0.5 m	20 82 631 1005						
				1.0 m	20 82 631 1010						
				2.0 m	20 82 631 1020						
				5.0 m	20 82 631 1050						
				7.5 m	20 82 631 1075						
				10.0 m	20 82 631 1100						
HARTING Ethernet cabling: RJ45 cable assemblies, IP20, 8-wire											
		DualBoot® RJ45 industrial Ethernet system cables Cat. 6 _A		0.5 m	09 48 474 7756 005**	09 48 474 7757 005***					
				1.0 m	09 48 474 7756 010**	09 48 474 7757 010***					
				2.0 m	09 48 474 7756 020**	09 48 474 7757 020***					
				5.0 m	09 48 474 7756 050**	09 48 474 7757 050***					
				7.0 m	09 48 474 7756 070**	09 48 474 7757 070***					
				10.0 m	09 48 474 7756 100**	09 48 474 7757 100***					
		DualBoot® RJ45 preLink® system cables Cat. 6		0.5 m	20 82 601 1005						
				1.0 m	20 82 601 1010						
				2.0 m	20 82 601 1020						
				5.0 m	20 82 601 1050						
				7.0 m	20 82 601 1070						
				10.0 m	20 82 601 1100						
HARTING Ethernet cabling: VarioBoot® RJ45 cable assemblies, IP20, 4-wire											
		VarioBoot® RJ45 Industrial Ethernet system cables Cat. 6 _A		0.5 m	09 48 848 4745 005	09 48 858 5745 005					
				1.0 m	09 48 848 4745 010	09 48 858 5745 010					
				2.0 m	09 48 848 4745 020	09 48 858 5745 020					
				5.0 m	09 48 848 4745 050	09 48 858 5745 050					
				7.5 m	09 48 848 4745 075	09 48 858 5745 075					
				10.0 m	09 48 848 4745 100	09 48 858 5745 100					
		VarioBoot® RJ45 DualBoot® RJ45 system cables Cat. 6 _A		0.5 m	09 48 844 7745 005	09 48 854 7745 005					
				1.0 m	09 48 844 7745 010	09 48 854 7745 010					
				2.0 m	09 48 844 7745 020	09 48 854 7745 020					
				5.0 m	09 48 844 7745 050	09 48 854 7745 050					
				7.5 m	09 48 844 7745 075	09 48 854 7745 075					
				10.0 m	09 48 844 7745 100	09 48 854 7745 100					
HARTING Ethernet cabling: Han® 3 A RJ45 cable assemblies, IP65/67, 4-wire											
		Han® 3 A RJ45 PROFINET system cables Cat. 5		1.5 m	09 45 715 0023	09 45 715 1164					
				3.0 m	09 45 715 0025	09 45 715 1166					
				5.0 m	09 45 715 0027	09 45 715 1168					
				10.0 m	09 45 715 0051	09 45 715 1173					
				20.0 m	09 45 715 0053	09 45 715 1175					
		Han® 3 A RJ45 IP20 PROFINET system cables Cat. 5		1.5 m	09 45 700 0023	09 45 700 1164					
				3.0 m	09 45 700 0025	09 45 700 1166					
				5.0 m	09 45 700 0027	09 45 700 1168					
				10.0 m	09 45 700 0051	09 45 700 1173					
				20.0 m	09 45 700 0053	09 45 700 1175					
HARTING Ethernet cabling: Han® 3 A RJ45 cable assemblies, IP65/67, 8-wire											
		Han® 3 A RJ45 PROFINET system cables Cat. 6 _A		1.5 m	09 45 715 1563	09 45 715 1523					
				3.0 m	09 45 715 1565	09 45 715 1525					
				5.0 m	09 45 715 1567	09 45 715 1527					
				10.0 m	09 45 715 1572	09 45 715 1551					
				20.0 m	09 45 715 1574	09 45 715 1553					
		Han® 3 A RJ45 IP20 PROFINET system cables Cat. 6 _A		1.5 m	09 45 701 1534	09 45 701 1564					
				3.0 m	09 45 701 1536	09 45 701 1566					
				5.0 m	09 45 701 1538	09 45 701 1568					
				10.0 m	09 45 701 1543	09 45 701 1573					
				20.0 m	09 45 701 1545	09 45 701 1575					

* Other cable lengths on request!

Further information on cable assemblies:
<https://www.HARTING.com/DE/en-gb/solutions/cable-assemblies-and-distribution-boxes>

Depiction	Characteristics	Number of ports	Product designation	Part no.
Ha-VIS eCon 2000 Series (IP30 plugged)				
	0 °C ... 55 °C Multimode SC ports	6 + 1 ports 6 + 2 ports	Ha-VIS eCon 2061B-AD Ha-VIS eCon 2062B-AD	24 02 006 1110 24 02 006 2110
	-40 °C ... +70 °C Multimode SC ports	6 + 1 ports 6 + 2 ports	Ha-VIS eCon 2061BT-AD Ha-VIS eCon 2062BT-AD	24 02 006 1100 24 02 006 2100
	0 °C ... 55 °C Singlemode SC ports	6 + 1 ports 6 + 2 ports	Ha-VIS eCon 2061B-AF Ha-VIS eCon 2062B-AF	24 02 006 1210 24 02 006 2210
	-40 °C ... +70 °C Singlemode SC ports	6 + 1 ports 6 + 2 ports	Ha-VIS eCon 2061BT-AF Ha-VIS eCon 2062BT-AF	24 02 006 1200 24 02 006 2200
	0 °C ... 55 °C Multimode SC ports 4 PoE / PoE+ ports	6 + 1 ports 6 + 2 ports	Ha-VIS eCon 2061B-AD-P Ha-VIS eCon 2062B-AD-P	24 02 006 1130 24 02 006 2130
	-40 °C ... +70 °C Multimode SC ports 4 PoE / PoE+ ports	6 + 1 ports 6 + 2 ports	Ha-VIS eCon 2061BT-AD-P Ha-VIS eCon 2062BT-AD-P	24 02 006 1120 24 02 006 2120
	0 °C ... 55 °C Singlemode SC ports 4 PoE / PoE+ ports	6 + 1 ports 6 + 2 ports	Ha-VIS eCon 2061B-AF-P Ha-VIS eCon 2062B-AF-P	24 02 006 1230 24 02 006 2230
	-40 °C ... +70 °C Singlemode SC ports 4 PoE / PoE+ ports	6 + 1 ports 6 + 2 ports	Ha-VIS eCon 2061BT-AF-P Ha-VIS eCon 2062BT-AF-P	24 02 006 1220 24 02 006 2220
Ha-Vis eCon 3000 Series (IP30 plugged)				
	0 °C ... 55 °C Multimode SC ports	2 + 1 ports 4 + 1 ports 4 + 2 ports 6 + 1 ports 8 + 1 ports 8 + 2 ports	Ha-VIS eCon 3021B-AD Ha-VIS eCon 3041B-AD Ha-VIS eCon 3042B-AD Ha-VIS eCon 3061B-AD Ha-VIS eCon 3081B-AD Ha-VIS eCon 3082B-AD	24 03 002 1110 24 03 004 1110 24 03 004 2110 24 03 006 1110 24 03 008 1110 24 03 008 2110
	-40 °C ... +70 °C Multimode SC ports	2 + 1 ports 4 + 1 ports 4 + 2 ports 6 + 1 ports 8 + 1 ports 8 + 2 ports	Ha-VIS eCon 3021BT-AD Ha-VIS eCon 3041BT-AD Ha-VIS eCon 3042BT-AD Ha-VIS eCon 3061BT-AD Ha-VIS eCon 3081BT-AD Ha-VIS eCon 3082BT-AD	24 03 002 1100 24 03 004 1100 24 03 004 2100 24 03 006 1100 24 03 008 1100 24 03 008 2100
	0 °C ... 55 °C Singlemode SC ports	2 + 1 ports 4 + 1 ports 4 + 2 ports 8 + 1 ports 8 + 2 ports	Ha-VIS eCon 3021B-AF Ha-VIS eCon 3041B-AF Ha-VIS eCon 3042B-AF Ha-VIS eCon 3081B-AF Ha-VIS eCon 3082B-AF	24 03 002 1210 24 03 004 1210 24 03 004 2210 24 03 008 1210 24 03 008 2210
	-40 °C ... +70 °C Singlemode SC ports	2 + 1 ports 4 + 1 ports 4 + 2 ports 8 + 1 ports 8 + 2 ports	Ha-VIS eCon 3021BT-AF Ha-VIS eCon 3041BT-AF Ha-VIS eCon 3042BT-AF Ha-VIS eCon 3081BT-AF Ha-VIS eCon 3082BT-AF	24 03 002 1200 24 03 004 1200 24 03 004 2200 24 03 008 1200 24 03 008 2200
	0 °C ... 55 °C Multimode SC ports 4 PoE / PoE+ ports	4 + 1 ports 4 + 2 ports	Ha-VIS eCon 3041B-AD-P Ha-VIS eCon 3042B-AD-P	24 03 004 1130 24 03 004 2130
	-40 °C ... +70 °C Multimode SC ports 4 PoE / PoE+ ports	4 + 1 ports 4 + 2 ports	Ha-VIS eCon 3041BT-AD-P Ha-VIS eCon 3042BT-AD-P	24 03 004 1120 24 03 004 2120
	0 °C ... 55 °C Singlemode SC ports 4 PoE / PoE+ ports	4 + 1 ports 4 + 2 ports	Ha-VIS eCon 3041B-AF-P Ha-VIS eCon 3042B-AF-P	24 03 004 1230 24 03 004 2230
	-40 °C ... +70 °C Singlemode SC ports 4 PoE / PoE+ ports	4 + 1 ports 4 + 2 ports	Ha-VIS eCon 3041BT-AF-P Ha-VIS eCon 3042BT-AF-P	24 03 004 1220 24 03 004 2220
	0 °C ... 55 °C Multimode SC ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 2 ports 6 + 1 ports	Ha-VIS eCon 3042B-AD-PP Ha-VIS eCon 3061B-AD-PP	24 03 104 2130 24 03 106 1130
	-40 °C ... +70 °C Multimode SC ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 2 ports 6 + 1 ports	Ha-VIS eCon 3042BT-AD-PP Ha-VIS eCon 3061BT-AD-PP	24 03 104 2120 24 03 106 1120
	0 °C ... 55 °C Singlemode SC ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 2 ports 6 + 1 ports	Ha-VIS eCon 3042B-AF-PP Ha-VIS eCon 3061B-AF-PP	24 03 104 2230 24 03 106 1230
	-40 °C ... +70 °C Singlemode SC ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 2 ports 6 + 1 ports	Ha-VIS eCon 3042BT-AF-PP Ha-VIS eCon 3061BT-AF-PP	24 03 104 2220 24 03 106 1220

ETHERNET SWITCHES

RJ45 AND FO

1 GBIT/S

Depiction	Characteristics	Number of ports	Product designation	Part no.
Ha-VIS eCon 2000 Series (IP30 plugged)				
	0 °C ... 55 °C Multimode SC ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 2043GB-AD Ha-VIS eCon 2052GB-AD Ha-VIS eCon 2061GB-AD	24 02 404 3110 24 02 405 2110 24 02 406 1110
	-40 °C ... +70 °C Multimode SC ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 2043GBT-AD Ha-VIS eCon 2052GBT-AD Ha-VIS eCon 2061GBT-AD	24 02 404 3100 24 02 405 2100 24 02 406 1100
	0 °C ... 55 °C Singlemode SC ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 2043GB-AF Ha-VIS eCon 2052GB-AF Ha-VIS eCon 2061GB-AF	24 02 404 3210 24 02 405 2210 24 02 406 1210
	-40 °C ... +70 °C Singlemode SC ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 2043GBT-AF Ha-VIS eCon 2052GBT-AF Ha-VIS eCon 2061GBT-AF	24 02 404 3200 24 02 405 2200 24 02 406 1200
	0 °C ... 55 °C Multimode SC ports 4 PoE / PoE+ ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 2043GB-AD-P Ha-VIS eCon 2052GB-AD-P Ha-VIS eCon 2061GB-AD-P	24 02 404 3130 24 02 405 2130 24 02 406 1130
	-40 °C ... +70 °C Multimode SC ports 4 PoE / PoE+ ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 2043GBT-AD-P Ha-VIS eCon 2052GBT-AD-P Ha-VIS eCon 2061GBT-AD-P	24 02 404 3120 24 02 405 2120 24 02 406 1120
	0 °C ... 55 °C Singlemode SC ports 4 PoE / PoE+ ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 2043GB-AF-P Ha-VIS eCon 2052GB-AF-P Ha-VIS eCon 2061GB-AF-P	24 02 404 3230 24 02 405 2230 24 02 406 1230
	-40 °C ... +70 °C Singlemode SC ports 4 PoE / PoE+ ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 2043GBT-AF-P Ha-VIS eCon 2052GBT-AF-P Ha-VIS eCon 2061GBT-AF-P	24 02 404 3220 24 02 405 2220 24 02 406 1220
Ha-VIS eCon 3000 Series (IP30 plugged)				
 	0 °C ... 55 °C Multimode SC ports	1 + 1 ports 4 + 1 ports 4 + 2 ports 5 + 1 ports	Ha-VIS eCon 3011GB-AD Ha-VIS eCon 3041GB-AD Ha-VIS eCon 3042GB-AD Ha-VIS eCon 3051GB-AD	24 03 401 1110 24 03 404 1110 24 03 404 2110 24 03 405 1110
	-40 °C ... +70 °C Multimode SC ports	1 + 1 ports 4 + 1 ports 4 + 2 ports 5 + 1 ports	Ha-VIS eCon 3011GBT-AD Ha-VIS eCon 3041GBT-AD Ha-VIS eCon 3042GBT-AD Ha-VIS eCon 3051GBT-AD	24 03 401 1100 24 03 404 1100 24 03 404 2100 24 03 405 1100
	0 °C ... 55 °C Singlemode SC ports	1 + 1 ports 4 + 1 ports 4 + 2 ports 5 + 1 ports	Ha-VIS eCon 3011GB-AF Ha-VIS eCon 3041GB-AF Ha-VIS eCon 3042GB-AF Ha-VIS eCon 3051GB-AF	24 03 401 1210 24 03 404 1210 24 03 404 2210 24 03 405 1210
	-40 °C ... +70 °C Singlemode SC ports	1 + 1 ports 4 + 1 ports 4 + 2 ports 5 + 1 ports	Ha-VIS eCon 3011GBT-AF Ha-VIS eCon 3041GBT-AF Ha-VIS eCon 3042GBT-AF Ha-VIS eCon 3051GBT-AF	24 03 401 1200 24 03 404 1200 24 03 404 2200 24 03 405 1200
	0 °C ... 55 °C SFP ports	1 + 1 ports 4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 3011GB-AC Ha-VIS eCon 3043GB-AC Ha-VIS eCon 3052GB-AC Ha-VIS eCon 3061GB-AC	24 03 401 1310 24 03 404 3310 24 03 405 2310 24 03 406 1310
	-40 °C ... +70 °C SFP ports	1 + 1 ports 4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 3011GBT-AC Ha-VIS eCon 3043GBT-AC Ha-VIS eCon 3052GBT-AC Ha-VIS eCon 3061GBT-AC	24 03 401 1300 24 03 404 3300 24 03 405 2300 24 03 406 1300
 	0 °C ... 55 °C Multimode SC ports 4 PoE / PoE+ ports	4 + 1 ports 4 + 2 ports 5 + 1 ports	Ha-VIS eCon 3041GB-AD-P Ha-VIS eCon 3042GB-AD-P Ha-VIS eCon 3051GB-AD-P	24 03 404 1130 24 03 404 2130 24 03 405 1130
	-40 °C ... +70 °C Multimode SC ports 4 PoE / PoE+ ports	4 + 1 ports 4 + 2 ports 5 + 1 ports	Ha-VIS eCon 3041GBT-AD-P Ha-VIS eCon 3042GBT-AD-P Ha-VIS eCon 3051GBT-AD-P	24 03 404 1120 24 03 404 2120 24 03 405 1120
	0 °C ... 55 °C Singlemode SC ports 4 PoE / PoE+ ports	4 + 1 ports 4 + 2 ports 5 + 1 ports	Ha-VIS eCon 3041GB-AF-P Ha-VIS eCon 3042GB-AF-P Ha-VIS eCon 3051GB-AF-P	24 03 404 1230 24 03 404 2230 24 03 405 1230
	-40 °C ... +70 °C Singlemode SC ports 4 PoE / PoE+ ports	4 + 1 ports 4 + 2 ports 5 + 1 ports	Ha-VIS eCon 3041GBT-AF-P Ha-VIS eCon 3042GBT-AF-P Ha-VIS eCon 3051GBT-AF-P	24 03 404 1220 24 03 404 2220 24 03 405 1220
	0 °C ... 55 °C SFP ports 4 PoE / PoE+ ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 3043GB-AC-P Ha-VIS eCon 3052GB-AC-P Ha-VIS eCon 3061GB-AC-P	24 03 404 3330 24 03 405 2330 24 03 406 1330
	-40 °C ... +70 °C SFP ports 4 PoE / PoE+ ports	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 3043GBT-AC-P Ha-VIS eCon 3052GBT-AC-P Ha-VIS eCon 3061GBT-AC-P	24 03 404 3320 24 03 405 2320 24 03 406 1320

ETHERNET SWITCHES	RJ45** AND FO	1 GBIT/S	Depiction	Characteristics	Number of ports	Product designation	Part no.
				0 °C ... 55 °C Multimode SC ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 1 ports 4 + 2 ports	Ha-VIS eCon 3041GB-AD-PP Ha-VIS eCon 3042GB-AD-PP	24 03 504 1130 24 03 504 2130
				-40 °C ... +70 °C Multimode SC ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 1 ports 4 + 2 ports	Ha-VIS eCon 3041GBT-AD-PP Ha-VIS eCon 3042GBT-AD-PP	24 03 504 1120 24 03 504 2120
				0 °C ... 55 °C Singlemode SC ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 1 ports 4 + 2 ports	Ha-VIS eCon 3041GB-AF-PP Ha-VIS eCon 3042GB-AF-PP	24 03 504 1230 24 03 504 2230
				-40 °C ... +70 °C Singlemode SC ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 1 ports 4 + 2 ports	Ha-VIS eCon 3041GBT-AF-PP Ha-VIS eCon 3042GBT-AF-PP	24 03 504 1220 24 03 504 2220
				0 °C ... 55 °C SFP ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 3043GB-AC-PP Ha-VIS eCon 3052GB-AC-PP Ha-VIS eCon 3061GB-AC-PP	24 03 504 3330 24 03 505 2330 24 03 506 1330
				-40 °C ... +70 °C SFP ports 4 PoE / PoE+ ports Integr. DC/DC converter	4 + 3 ports 5 + 2 ports 6 + 1 ports	Ha-VIS eCon 3043GBT-AC-PP Ha-VIS eCon 3052GBT-AC-PP Ha-VIS eCon 3061GBT-AC-PP	24 03 504 3320 24 03 505 2320 24 03 506 1320
ACCESSORIES	RJ45** AND FO	10/100 MBIT/S	Ha-VIS SFP modules				
		10/100 MBIT/S		155 Mbit/s data rate - 40 °C ... + 70 °C		Multimode SFP - 2000 m Singlemode SFP - 15 km Singlemode SFP - 40 km Singlemode SFP - 80 km	20 76 000 0300 20 76 020 0300 20 76 024 0300 20 76 028 0300
		1 GBIT/S		1.25 Gbit/s data rate - 40 °C ... + 70 °C		Multimode SFP - 500 m Singlemode SFP - 10 km Singlemode SFP - 40 km Singlemode SFP - 80 km	20 76 010 0300 20 76 030 0300 20 76 034 0300 20 76 038 0300
SYSTEM CABLES AND CABLE ASSEMBLIES	RJ45** AND FO	10/100 MBIT/S AND 1/10 GBIT/S	Depiction	Characteristics	Length*	Multimode 50/125 µm	Singlemode 9/125 µm
			HARTING IP20 fibre optic connecting cables				
				SC Duplex system cables, LSZH	1.0 m	33 01 241 0010 006	33 01 241 0010 009
					2.0 m	33 01 241 0020 006	33 01 241 0020 009
					3.0 m	33 01 241 0030 006	33 01 241 0030 009
					4.0 m	33 01 241 0040 006	33 01 241 0040 009
					5.0 m	33 01 241 0050 006	33 01 241 0050 009
					6.0 m	33 01 241 0060 006	33 01 241 0060 009
					7.0 m	33 01 241 0070 006	33 01 241 0070 009
					8.0 m	33 01 241 0080 006	33 01 241 0080 009
					9.0 m	33 01 241 0090 006	33 01 241 0090 009
					10.0 m	33 01 241 0100 006	33 01 241 0100 009
				LC Duplex system cables, LSZH	1.0 m	33 01 241 0010 005	33 01 241 0010 008
					2.0 m	33 01 241 0020 005	33 01 241 0020 008
					3.0 m	33 01 241 0030 005	33 01 241 0030 008
					4.0 m	33 01 241 0040 005	33 01 241 0040 008
					5.0 m	33 01 241 0050 005	33 01 241 0050 008
					6.0 m	33 01 241 0060 005	33 01 241 0060 008
					7.0 m	33 01 241 0070 005	33 01 241 0070 008
					8.0 m	33 01 241 0080 005	33 01 241 0080 008
					9.0 m	33 01 241 0090 005	33 01 241 0090 008
					10.0 m	33 01 241 0100 005	33 01 241 0100 008
				LC Duplex - SC Duplex system cables, LSZH	1.0 m	33 01 241 0010 034	33 01 241 0010 033
					2.0 m	33 01 241 0020 034	33 01 241 0020 033
					3.0 m	33 01 241 0030 034	33 01 241 0030 033
					4.0 m	33 01 241 0040 034	33 01 241 0040 033
					5.0 m	33 01 241 0050 034	33 01 241 0050 033
					6.0 m	33 01 241 0060 034	33 01 241 0060 033
					7.0 m	33 01 241 0070 034	33 01 241 0070 033
					8.0 m	33 01 241 0080 034	33 01 241 0080 033
					9.0 m	33 01 241 0090 034	33 01 241 0090 033
					10.0 m	33 01 241 0100 034	33 01 241 0100 033

* Other cable lengths on request!

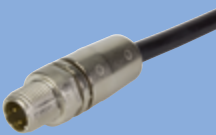
** RJ45 system cable, see other page



Further information on cable assemblies:
<https://www.HARTING.com/DE/en-gb/solutions/cable-assemblies-and-distribution-boxes>

ETHERNET SWITCHES	M 12	10 / 100 MBIT/S	Depiction	Characteristics	Number of ports	Product designation	Part no.
			Ha-VIS eCon 4000 Series (IP40 plugged)				
				- 40 °C ... + 70 °C	8 ports 8 ports 8 ports	Ha-VIS eCon 4080-B1 Ha-VIS eCon 4080-B3 Ha-VIS eCon 4080-BPoE1	20 77 208 3001 20 77 208 3003 20 77 208 3009
			Ha-VIS eCon 7000 Series (IP65/67 plugged)				
				- 40 °C ... + 70 °C	5 ports 10 ports	Ha-VIS eCon 7050-B1 Ha-VIS eCon 7100-B1	20 70 305 3943 20 70 310 3942
		Ha-VIS eCon 9000 Series (IP20 plugged)					
			- 40 °C ... + 70 °C	7 ports 8 ports	Ha-VIS eCon 9070-B Ha-VIS eCon 9080-B1	20 76 207 7000 20 76 208 7003	
		1 GBIT/S	Ha-VIS eCon 4000 Series (IP40 plugged)				
				- 40 °C ... + 70 °C	2 GbE + 8 FE ports	Ha-VIS eCon 4100-BB-L Ha-VIS eCon 4100-BB-L-B Ha-VIS eCon 4100-BB-H Ha-VIS eCon 4100-BB-H-B	20 77 210 3000 20 77 210 3002 20 77 210 3010 20 77 210 3012
			10 / 100 MBIT/S	Depiction	Characteristics	Length*	Part no. PUR
HARTING Ethernet cabling - M 12 cable D-coding, 4-wire, Cat. 5							
	pre-assembled on both sides straight connector to straight connector			0.5 m	21 34 929 2477 005	21 34 929 2405 005	
		1.0 m		21 34 929 2477 010	21 34 929 2405 010		
		2.0 m		21 34 929 2477 020	21 34 929 2405 020		
		5.0 m	21 34 929 2477 050	21 34 929 2405 050			
		7.5 m	21 34 929 2477 075	21 34 929 2405 075			
		10.0 m	21 34 929 2477 100	21 34 929 2405 100			
	pre-assembled on both sides straight connector to angled female	0.5 m	21 34 929 3477 005	21 34 929 3405 005			
		1.0 m	21 34 929 3477 010	21 34 929 3405 010			
		2.0 m	21 34 929 3477 020	21 34 929 3405 020			
		5.0 m	21 34 929 3477 050	21 34 929 3405 050			
		7.5 m	21 34 929 3477 075	21 34 929 3405 075			
		10.0 m	21 34 929 3477 100	21 34 929 3405 100			
	pre-assembled on one side straight connector to open end	0.5 m	21 34 920 0477 005	21 34 920 0405 005			
		1.0 m	21 34 920 0477 010	21 34 920 0405 010			
		2.0 m	21 34 920 0477 020	21 34 920 0405 020			
		5.0 m	21 34 920 0477 050	21 34 920 0405 050			
		7.5 m	21 34 920 0477 075	21 34 920 0405 075			
		10.0 m	21 34 920 0477 100	21 34 920 0405 100			
	pre-assembled on one side straight female to open end	0.5 m	21 34 930 0477 005	21 34 930 0405 005			
		1.0 m	21 34 930 0477 010	21 34 930 0405 010			
2.0 m		21 34 930 0477 020	21 34 930 0405 020				
5.0 m		21 34 930 0477 050	21 34 930 0405 050				
7.5 m		21 34 930 0477 075	21 34 930 0405 075				
10.0 m		21 34 930 0477 100	21 34 930 0405 100				
pre-assembled on both sides angled connector to angled connector	0.5 m	21 34 949 4477 005	21 34 949 4405 005				
	1.0 m	21 34 949 4477 010	21 34 949 4405 010				
	2.0 m	21 34 949 4477 020	21 34 949 4405 020				
	5.0 m	21 34 949 4477 050	21 34 949 4405 050				
	7.5 m	21 34 949 4477 075	21 34 949 4405 075				
	10.0 m	21 34 949 4477 100	21 34 949 4405 100				

* Other cable lengths on request!

SYSTEM CABLES AND CABLE ASSEMBLIES					
M12					
1 / 10 GBIT/S					
Depiction		Characteristics	Length*	Part no. PUR	Part no. PVC
HARTING Ethernet cabling - M12 cable X-coding, 8-wire, Cat. 6 _A					
	HARTING Press & Go M12 X-coded pre-assembled on one side straight connector to open end	1.0 m	21 33 050 0850 010		21 33 050 0855 010
		2.0 m	21 33 050 0850 020		21 33 050 0855 020
		3.0 m	21 33 050 0850 030		21 33 050 0855 030
		5.0 m	21 33 050 0850 050		21 33 050 0855 050
		10.0 m	21 33 050 0850 100		21 33 050 0855 100
	HARTING Press & Go M12 X-coded pre-assembled on both sides straight connector to straight connector	1.0 m	21 33 050 5850 010		21 33 050 5855 010
		2.0 m	21 33 050 5850 020		21 33 050 5855 020
		3.0 m	21 33 050 5850 030		21 33 050 5855 030
		5.0 m	21 33 050 5850 050		21 33 050 5855 050
		10.0 m	21 33 050 5850 100		21 33 050 5855 100
10 / 100 MBIT/S					
Depiction		Characteristics	Length*	Part no. HARTING EtherRail	
HARTING Ethernet cabling - M12 railway cable D-coding, 4-wire, Cat. 5					
 	HARTING M12 D-coded pre-assembled on one side straight connector to open end	0.5 m	09 48 220 0011 005		
		1.0 m	09 48 220 0011 010		
		2.0 m	09 48 220 0011 020		
		5.0 m	09 48 220 0011 050		
		7.5 m	09 48 220 0011 075		
	10.0 m	09 48 220 0011 100			
	HARTING M12 D-coded pre-assembled on both sides straight connector to straight connector	0.5 m	09 48 222 2011 005		
		1.0 m	09 48 222 2011 010		
		2.0 m	09 48 222 2011 020		
		5.0 m	09 48 222 2011 050		
		7.5 m	09 48 222 2011 075		
	10.0 m	09 48 222 2011 100			
	HARTING M12 D-coded pre-assembled on one side angled connector to open end	0.5 m	09 48 800 0011 005		
		1.0 m	09 48 800 0011 010		
		2.0 m	09 48 800 0011 020		
		5.0 m	09 48 800 0011 050		
7.5 m		09 48 800 0011 075			
10.0 m	09 48 800 0011 100				
HARTING M12 D-coded pre-assembled on both sides angled connector to angled connector	0.5 m	09 48 808 0011 005			
	1.0 m	09 48 808 0011 010			
	2.0 m	09 48 808 0011 020			
	5.0 m	09 48 808 0011 050			
	7.5 m	09 48 808 0011 075			
10.0 m	09 48 808 0011 100				
	PushPull Press & Go M12 D-coded pre-assembled on both sides straight connector to straight connector	1.0 m	21 33 232 3401 010		
		2.0 m	21 33 232 3401 020		
		3.0 m	21 33 232 3401 030		
		5.0 m	21 33 232 3401 050		
		10.0 m	21 33 232 3401 100		
10 / 100 MBIT/S AND 1/10 GBIT/S					
HARTING Ethernet cabling - M12 railway cable X-coding 8-wire, Cat. 6 _A					
	HARTING Press & Go M12 X-coded pre-assembled on one side straight connector to open end	0.5 m	21 33 050 0853 005		
		1.0 m	21 33 050 0853 010		
		2.0 m	21 33 050 0853 020		
		5.0 m	21 33 050 0853 050		
		7.5 m	21 33 050 0853 075		
	10.0 m	21 33 050 0853 100			
	HARTING Press & Go M12 X-coded pre-assembled on both sides straight connector to straight connector	0.5 m	21 33 050 5853 005		
		1.0 m	21 33 050 5853 010		
		2.0 m	21 33 050 5853 020		
		5.0 m	21 33 050 5853 050		
7.5 m		21 33 050 5853 075			
10.0 m	21 33 050 5853 100				
	HARTING Press & Go M12 X-coded pre-assembled on one side PushPull straight connector to open end	0.5 m	21 33 290 0853 005		
		1.0 m	21 33 290 0853 010		
		2.0 m	21 33 290 0853 020		
		5.0 m	21 33 290 0853 050		
		7.5 m	21 33 290 0853 075		
	10.0 m	21 33 290 0853 100			
	HARTING Press & Go M12 X-coded pre-assembled on both sides PushPull straight connector to straight connector	0.5 m	21 33 292 9853 005		
		1.0 m	21 33 292 9853 010		
		2.0 m	21 33 292 9853 020		
		5.0 m	21 33 292 9853 050		
7.5 m		21 33 292 9853 075			
10.0 m	21 33 292 9853 100				

* Other cable lengths on request!



Further information on cable assemblies:
<https://www.HARTING.com/DE/en-gb/solutions/cable-assemblies-and-distribution-boxes>



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