Contractor Series

In only a few years of time, the HDMI interface has become the standard for digital high resolution video and multi-channel audio data connections. Pre-made HDMI cables are already available in many different varieties, but for some specific applications you can't find an appropriate solution using pre-made cables. For example applications where the cabling should be integrated in walls and the cabling tubes are already provided. It's always difficult to pull a cable with connector through a tube without damaging it, and in many cases the connectors will be too wide to fit through the tubes.

To provide a solution for this kind of applications, Procab introduces the "HDMI Contractor Series". This is the world's first system which allows to assemble your own HDMI cable according to the requirements of your specific application, without any soldering, heat shrinking tubes or other complex operations.

Features

- HDMI 1.4
- High Speed with Ethernet
- Cable assembly in minutes
- Solderless
- Gold plated connectors
- 24 AWG and 26 AWG cables
- Up to 20 m HD video transfer (1080p)

CTV100 Toolbox

For on-site testing and assembly of the cable, a special contractor toolbox is available which contains everything you need to easily compose your own HDMI cable. Such as a Crimping tool (HDM800), a cable tester (HDM900), and 20 connectors for assembly (HDM19).

The assembly of the connectors on the cable only takes a few minutes. Just unwrap the cable jacket, insert the cables into the right order in the two cable holders, bring them together to the HDMI connector and after one squeeze of the crimping tool, the cable is ready to be used!
Afterwards, the cable tester can be used to determine if the connections are made properly.

HDM19 Connector

The HDM19 is the 19-pin connector which should be assembled to the cable ends.

The contact points are gold plated, and the body is made of sturdy die-cast material in a mat finish.

The connector includes two plastic cable holders where the conductors should be inserted into the right order.

HDM800

The HDM800 is a crimping tool which is especially designed to compress the HDMI Cable to the connector. After the cables are placed in the correct position in the cable holder, they should be placed together in the guiding jig. Thereafter, the guiding jig has to be placed between the crimping tool, and after one single squeeze, the cables are permanently connected to the connector and excessive wiring will be cut off automatically.

HDM900

The HDM900 is a portable cable tester consisting of a transmitter and receiver end. The HDMI cable which has to be tested should be placed between the transmitter and receiver. It has two operation modes, continuous and sweep. In continuous mode, the cable can be tested for DC continuity, while in sweep mode the cable can be tested on intercrossed pins.

This makes it easy to do on-site testing and troubleshooting of your HDMI cable.

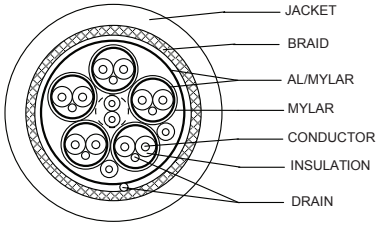
Contractor Series

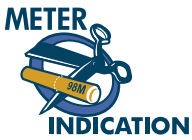
HDM24 & HDM26 Bulk Cable

The Procab HDM bulk series are cables especially designed to get your own HDMI cable assembled. They are High-Quality and High-Speed HDMI cables with Ethernet, meeting the HDMI 1.4 specifications.

Two versions are available with a different thickness for 26 AWG (HDM26) and 24 AWG (HDM24). Depending of the required cable length for your application, the appropriate cable can be determined through the table displayed below. It comes on wooden spools with 100 meters of cable so it can be cut to the desired length.

The outer jacket is made of solid PVC ensuring a flexible cable with a thorough touch. A meters indication printing is provided, repeating every meter and indicating the quantity of cable which is still left on the cable spool. This little feature can make a big difference when it comes to pulling cables for fixed installations.





Available Lengths:

100 m wooden reel

	AWG	Conductor	Inner Diameter	Outer Diameter	HDMI 1.4 Specifications Eye diagram test	DVD-TV AV test (1080p)
HDM26	26	7/0.16	1.25	8 mm	7 meter	15 meter
		1/0.404	1.10			
HDM24	24	7/0.20	1.55	9.5 mm	8 meter	20 meter
		1/0.515	1.4			

The table aboves shows two different maximum cable lengths, the first one is the maximum cable length determined by the Eye-diagram test, according to the HDMI 1.4 specification. The Eye-diagram testing is used for HDMI compliance testing in Authorised HDMI test centers. Because of the HDMI specifications which are overdimensioned from the beginning, some long cables which fail to the Eye-Diagram test by HDMI ATC testing can work properly for real DVD-TV connections. The second maximum cable length is determined by practical tests in realistic environments where an actual video signal (1080p) is transmitted to a TV set. These lengts are significantly longer than the maximum lengths determined by the Eye-diagram test.

Because the maximum cable length also depends of the way the connector is crimped on the cable and the environment the cable is used in, these lengths can not be guaranteed in all cases, but if the circumstances are reasonable, this table gives a good idea about the average feasibility.

		HDM26			HDM24		
		5 Pair	1 Pair	2 Conductors	5 Pair	1 Pair	2 Conductors
Conductor	AWG	26 AWG	26 AWG	26 AWG	24 AWG	26 AWG	26 AWG
	Material	Bare Copper	Tinned Copper	Tinned Copper	Bare Copper	Tinned Copper	Tinned Copper
	Size	1/0.404	7/0.16	7/0.16	1/0.511	7/0.16	7/0.16
Insulation	Thickness	0.35 mm	0.21 mm	0.21 mm	0.448 mm	0.21 mm	0.21 mm
	Material	FM-PE	HD-PE	HD-PE	FM-PE	HD-PE	HD-PE
	Outer diameter	1.10 mm	0.9 mm	0.9 mm	1.40 mm	0.9 mm	0.9 mm
Drain	Material	Bare Copper	/	/	Bare Copper	/	/
	Size	1/0.404	/	/	1/0.511	/	/
Inner Shielding	Coverage	100 %	/	/	100 %	/	/
	Overlap	25 % min	/	/	25 % min	/	/
Outer Shielding	Coverage	100 %			100 %		
	Overlap	25 % min			25 % min		
Drain	Material	Bare Copper			Bare Copper		
	Size	1/0.404			1/0.511		
Braid Copper	Material	AL-MG Wire			AL-MG Wire		
	Size	16*12/0.12			16*12/0.12		
Jacket	Thickness	1.05 mm			1.20		
	Material	PVC			PVC		
	Colour	Black			Black		
	Outer Diameter	Ø 8 mm			Ø 9.5 mm		