

Mako-G camera

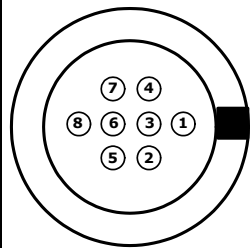
Drawing	Pin	Cable color	Signal	Direction	Level	Description
	1	Yellow dot Red	CameraOut1	Out	Open emitter max. 20 mA	Camera Output 1 (SyncOut1) opto-isolated
	2	Yellow dot Black	CameraOut2	Out	Open emitter max. 20 mA	Camera Output 2 (SyncOut2) opto-isolated
	3	Grey dot Red	CameraOut3	Out	Open emitter max. 20 mA	Camera Output 3 (SyncOut3) opto-isolated
	4	Grey dot Black	CameraIn	In	Uin(high) = 3 V...24 V Uin(low) = 0 V...1.0 V	Camera Input (SyncIn) opto-isolated
	5	Pink dot Black	CameraIn GND	In	Common GND for inputs	Camera Common Input Ground (In GND)
	6	Pink dot Red	CameraOut Power	In	Common VCC for outputs max. 30 V DC	Camera Output Power for digital outputs (OutVCC)
	7	Orange dot Black	ExtPower	---	12 V DC... 24 V DC +/- 10 %	Power Supply
	8	Orange dot Red	GND	---	GND for ext. Power	External Ground for external power

Table 5: Mako-G I/O definition

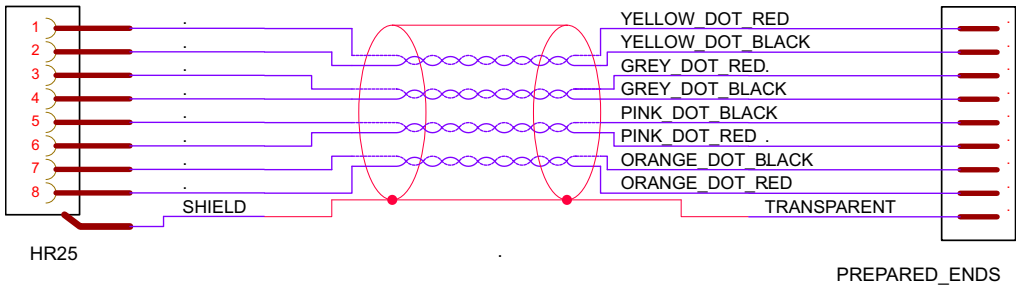


Figure 3: Mako-G cable color-coding

Note Color-coding is only valid for part numbers as specified in the table above, the pinout can be different for legacy cable variants.



The mating cable connector is HIROSE HR25-7TP-8S and can be purchased from AVT.
AVT P/N: K7600503

Manta and Manta PoE camera

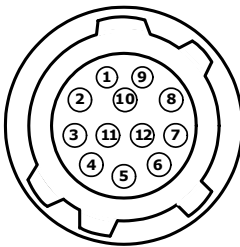
Drawing	Pin	Cable color	Signal	Direction	Level	Description
	1	Blue	External GND	---	GND for RS232 and ext. power	External Ground for RS232 and external power
	2	Red	External Power	---	+8...+30 V DC	Power Supply
	3	Pink	Video Iris	---	---	Video Iris (≥FW 1.44)
	4	Grey	Camera In1	In	$U_{in}(high) = 3 V...24 V$ $U_{in}(low) = 0 V...1.0 V$	Camera Input 1 (SyncIn1) opto-isolated
	5	Yellow	Reserved	---	---	---
	6	Green	Camera Out1	Out	Open emitter max. 10 mA	Camera Output 1 (SyncOut1) opto-isolated
	7	Brown	Camera In GND	In	Common GND for inputs	Camera Common Input Ground (In GND)
	8	White	RxD	In	RS232	Terminal Receive Data
	9	Black	TxD	Out	RS232	Terminal Transmit Data
	10	Orange	Camera Out Power	In	Common VCC for outputs max. 30 V DC	Camera Output Power for digital outputs (OutVCC)
	11	White/Black	Camera In2	In	$U_{in}(high) = 3 V...24 V$ $U_{in}(low) = 0 V...1.0 V$	Camera Input 2 (SyncIn2) opto-isolated
	12	White/Brown	Camera Out2	Out	Open emitter max. 10 mA	Camera Output 2 (SyncOut2) opto-isolated

Table 6: Manta and Manta PoE I/O definition

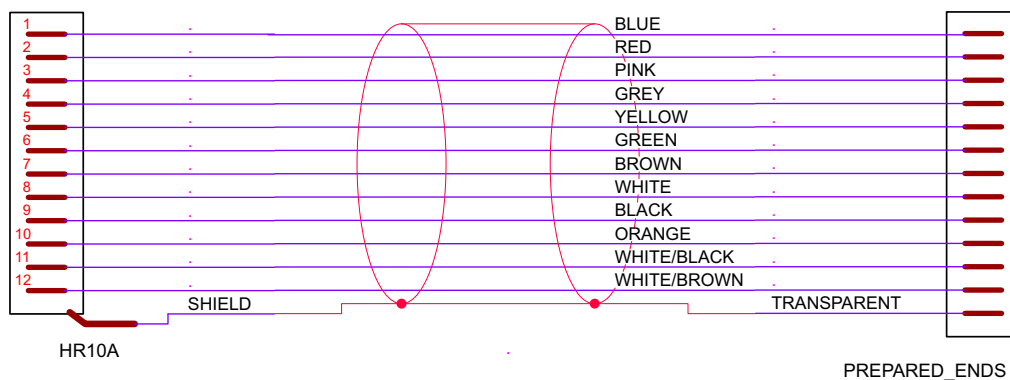


Figure 4: Manta and Manta PoE cable color-coding

Note

Color-coding is only valid for part numbers as specified in the table above, the pinout can be different for legacy cable variants.



The mating cable connector is HIROSE HR10A-10P-12S and can be purchased from AVT.

AVT P/N: K7600040 or 02-7002A

Camera IN1 and Camera IN2 for non-PoE variants manufactured prior 12/2011 are specified as follows:

$U_{in}(high) = 2.5 V...6.0 V$

$U_{in}(low) = 0 V...0.8 V$

Prosilica GT camera

Drawing	Pin	Cable color	Signal	Direction	Level	Description
	1	Blue	External GND	---	GND for RS232 and ext. power	External Ground for RS232 and external power
	2	Red	External Power	---	+5...+24 V DC	Power Supply
	3	Pink	Camera Out 4	Out	Open emitter max. 20 mA	Camera Output 4 (SyncOut4) opto-isolated
	4	Grey	Camera In 1	In	LVTTTL max. 3.3 V	Camera Input 1 (SyncIn1) non-isolated
	5	Yellow	Camera Out 3	Out	Open emitter max. 20 mA	Camera Output 3 (SyncOut3) opto-isolated
	6	Green	Camera Out 1	Out	LVTTTL max. 3.3 V	Camera Output 1 (SyncOut1) non-isolated
	7	Brown	Camera In GND	In	Common GND for inputs	Camera Common Input Ground (In GND)
	8	White	RxD (RS232)	In	RS232	Terminal Receive Data
	9	Black	TxD (RS232)	Out	RS232	Terminal Transmit Data
	10	Orange	Camera Out Power	In	Common VCC for outputs +5...+24 V DC	Camera Output Power for digital outputs (Out VCC)
	11	White/Black	Camera In 2	In	$U_{in}(high) = 5V...24 V$ $U_{in}(low) = 0V...0.8 V$	Camera Input 2 (SyncIn2) opto-isolated
	12	White/Brown	Camera Out 2	Out	LVTTTL max. 3.3 V	Camera Output 2 (SyncOut2) non-isolated

Table 8: Prosilica GT cable color code

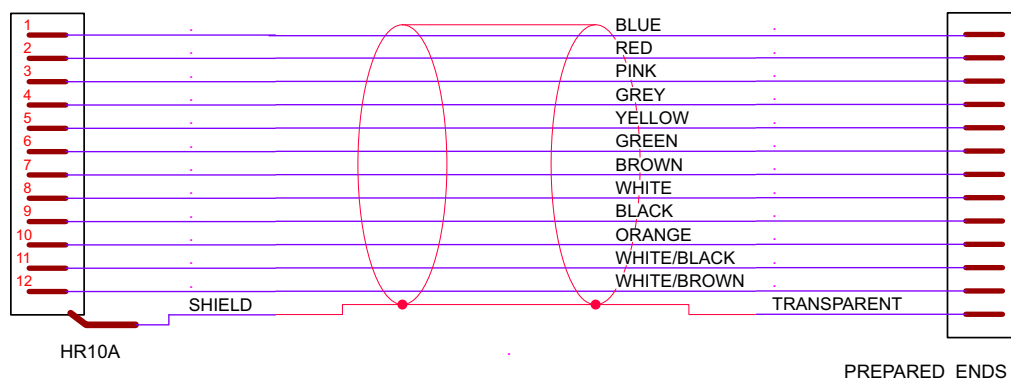


Figure 6: Prosilica GT cable color-coding

Note

Color-coding is only valid for part numbers as specified in the table above, the pinout can be different for legacy cable variants.



The mating cable connector is HIROSE HR10A-10P-12S and can be purchased from AVT.
AVT P/N: K7600040 or 02-7002A