

Instruction Leaflet AVT I/O cables

V3.0.0

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///ALLIED
Vision Technologies



AVTI/O cables are manufactured in accordance with the CE standard and its underlying directions.

RoHS

Compliance

AVTI/O cables comply with the requirements of the EU directive directive 2002/95/EC (Restriction of the use of certain hazardous substances in Electrical and Electronic Equipment - RoHS).



We declare, under our sole responsibility, that the described parts or components conform with UL20276.

Contacting AVT

Ordering and general information:

info@alliedvisiontec.com

phone (for Germany): +49 (0)36428 677-230

phone (for North America): +1 978-225-2030

phone (for Singapore): +65 6634-9027

Support:

support@alliedvisiontec.com

Outside Germany/North America:

Please check the link for your local dealer.

<http://www.alliedvisiontec.com/emea/sales/sales-locations.html>

Specifications

Feature	8-pin cable	12-pin cable	13-pin cable Manta / Stingray board level
Jacket	HR-PVC (Pb free), 0.81 mm thick, 5.0 mm Ø	PVC Class 43, 6.4 mm Ø +/-0.20	PVC 105 °C, 6.4 mm Ø
Outer braid shield	Tinned annealed copper, min. 85 % coverage	Tinned annealed copper, min. 85 % coverage	Tinned annealed copper
Cable assembly	5 pairs (4 used)	12 x single	13 x single
Insulation	HRLF PVC 0.1 mm thick, 0.58 mm Ø	SR-PVC	PVC 80 °C
Conductor	Tinned annealed copper 7 x 0.127 (AWG 28); 0.38 mm Ø	Tinned annealed copper, 7 x 0.16 mm (AWG26)	Tinned annealed copper, 7 x 0.16 (AWG26); 0.48mm Ø
Max. conductor DC resistance	246 Ω/km at 20°C	max. 140 Ω/km at +20°C	max. 155 Ω/km at +20°C
Min. insulation DC resistance	10 MΩ x km at 20°C	min. 100 MΩ x km at +20°C	min. 153 MΩ x km at +20°C
Compliance	UL 20276 (80°C/30 V), RoHS	UL/cUL, Style 2464/1061, RoHS	UL 2464/1061, VDE881, UL1061, RoHS

Trigger cable configuration

AVT part number	Legacy AVT part number	Description
2814	K1200191	12-pin HIROSE female to open end, 2.0 m
2815	K1200292 02-6033A 02-6031A	12-pin HIROSE female to open end, 3.0 m
2817	K1200193	12-pin HIROSE female to open end, 5.0 m
2818	K1200194	12-pin HIROSE female to open end, 10.0 m
2789	02-6032A	12-pin HIROSE male to open end, 3.0 m
2790	-	12-pin HIROSE male to open end, 5.0 m
2791	-	12-pin HIROSE male to open end, 10.0 m
K1200301	-	13-pin PicoBlade to open end, 3.0m
K1200302	-	13-pin PicoBlade to open end, 5.0m
K1200196	-	8-pin HIROSE female to open end, 2.0 m
K1200197	-	8-pin HIROSE female to open end, 5.0 m
2792	02-6041A	14-pin Mini-D shell to open end, 3.0 m
2793	-	14-pin Mini-D shell to open end, 5.0 m
2794	-	14-pin Mini-D shell to open end, 10.0 m
Trigger cable (only connected to Trigger IN 1)		
K1200267	-	12-pin HIROSE female to BNC, 2.0 m
K1200252	-	12-pin HIROSE female to BNC, 5.0 m
K1200240	-	12-pin HIROSE female to open end, 2.0 m
K1200244	-	12-pin HIROSE female to open end, 10.0 m
K1200229	-	8-pin HIROSE female to 4-pin open end, 10.0 m

I/O connector pin assignment

AVT standard HIROSE 12-pin connector

Drawing	Pin	Color
<p>HR10A-10P-12S</p>	1	Blue
	2	Red
	3	Pink
	4	Grey
	5	Yellow
	6	Green
	7	Brown
	8	White
	9	Black
	10	Orange
	11	White/Black
	12	White/Brown

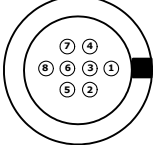
Supported AVT cameras:

1394a: Marlin, Oscar

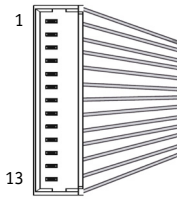
1394b: Stingray, Guppy PRO, Pike

GigE: Manta, Manta PoE, Prosilica GT / GX / GC


Guppy / Mako HIROSE 8-pin connector

Drawing	Pin	Color
 <p>HR25A-7TP-8S</p> <p>Supported AVT cameras: 1394a: Guppy, GigE: Mako</p>	1	Yellow dot Red
	2	Yellow dot Black
	3	Grey dot Red
	4	Grey dot Black
	5	Pink dot Black
	6	Pink dot Red
	7	Orange dot Black
	8	Orange dot Red

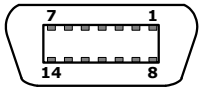
Manta / Stingray board level camera Picoblade connector

Drawing	Pin	Color
 <p>Supported AVT cameras: Manta/Stingray board level</p>	1	Blue
	2	Red
	3	White/Black
	4	Grey
	5	Yellow
	6	Green
	7	Brown
	8	White
	9	Black
	10	Orange
	11	White/Brown
	12	Violet
	13	Shield-Transparent

Prosilica GE HIROSE 12-pin female connector

Drawing	Pin	Color
 <p>HR10A-10P-12P</p> <p>Supported AVT cameras: GigE: Prosilica GE</p>	1	Blue
	2	Red
	3	Pink
	4	Grey
	5	Yellow
	6	Green
	7	Brown
	8	White
	9	Black
	10	Orange
	11	White/Black
	12	White/Brown

Prosilica GB/GS camera connector

Drawing	Pin	Color
 <p>14-pin Mini-D</p> <p>Supported AVT cameras: Prosilica GB/GS series</p>	1	Red
	2	Black
	3	White
	4	Brown
	5	Green
	6	Blue
	7	Orange
	8	---
	9	---
	10	Yellow
	11	White/Brown
	12	Pink
	13	White/Black
	14	Grey

Note



For technical details of input ranges, see the **AVT Technical Manuals** and the **AVT I/O cable data sheet**.

Additional references

To download AVT Technical Manuals etc.:
<http://www.alliedvisiontec.com/emea/support/downloads/product-literature.html>

AVT product page:
<http://www.alliedvisiontec.com/emea/products/cameras.html>

AVT knowledge base:
<http://www.alliedvisiontec.com/emea/support/knowledge-base.html>

AVT case studies:
<http://www.alliedvisiontec.com/emea/products/applications.html>

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