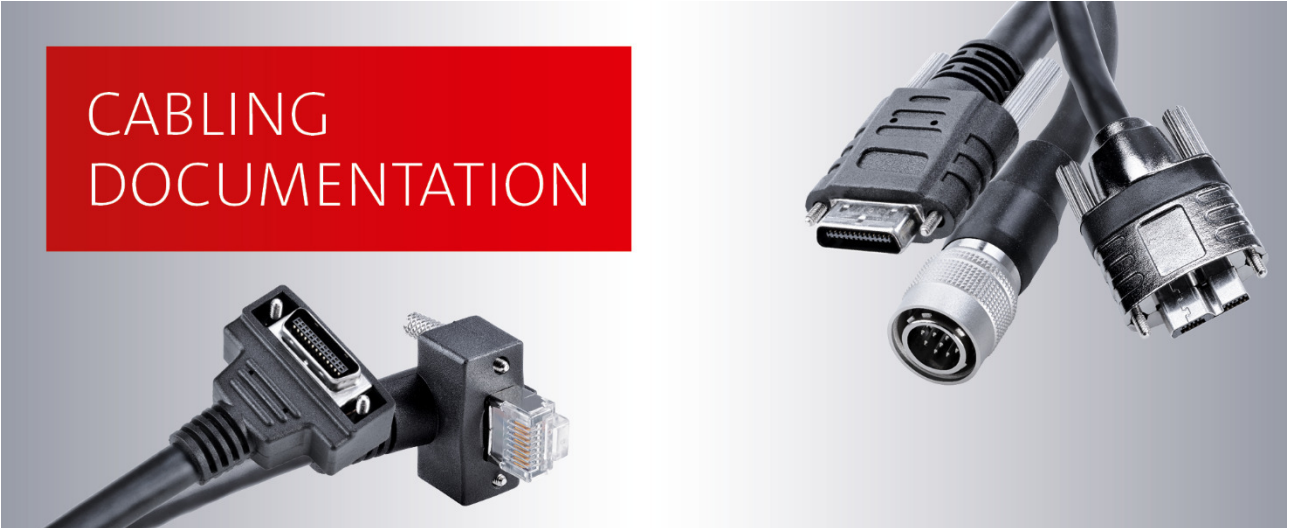


CABLING
DOCUMENTATION



Version: 1.10 (07.09.2018)

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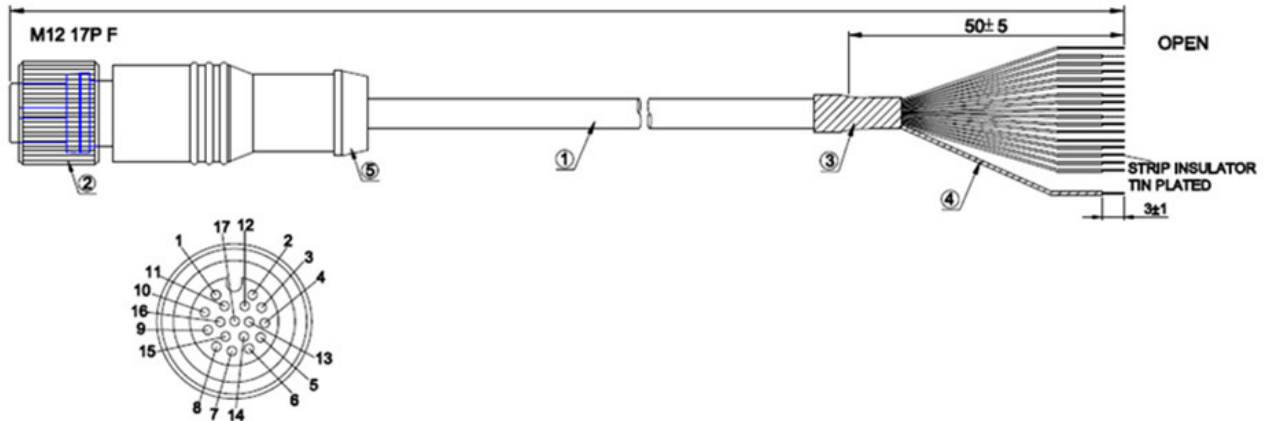
CABLE MISC-FULL

1. ADLINK EOS-D37-MISC-FULL-OP-5M

Signal		PIN	Colour
DI0	---	1	white
DI2	---	2	green-pink
DI4	---	3	green
DI6	---	4	yellow
DI8	---	5	grey
DI10	---	6	pink
DI12	---	7	violet
DI14	---	8	yellow-grey
DI_COM1	---	9	brown
DO_GND	---	10	blue
DO0	---	11	grey-pink
DO2	---	12	red-blue
DO4		13	white-green
DO6		14	brown-green
DO8		15	white-yellow
DO10		16	brown-yellow
DO12		17	white-grey
DO14		18	brown-grey
Clamp1		19	white-pink
DI1		20	brown-pink
DI3		21	white-blue
DI5		22	brown-blue
DI7		23	white-red
DI9		24	brown-red
DI11		25	white-black
DI13		26	brown-black
DI15		27	green-grey
DO_GND		28	red
DO_GND		29	black
DO1		30	yellow-pink
DO3		31	green-blue
DO5		32	yellow-blue
DO7		33	green-red
DO9		34	yellow-red
DO11		35	green-black
DO13		36	yellow-black
DO15		37	grey-blue

CABLE MISC-FULL

2. AT C2-CABLE C2-I/O-OP-xM



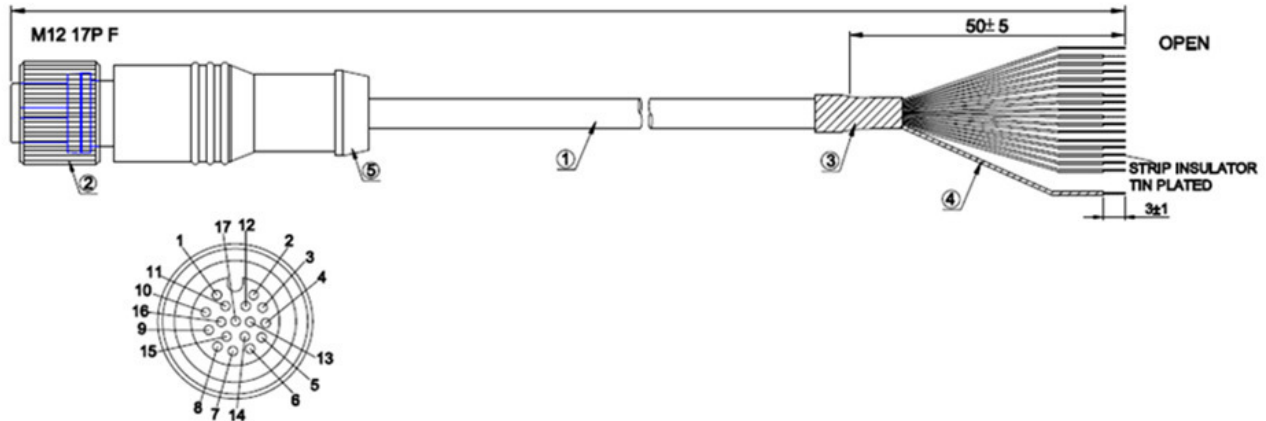
AT C2-Series
Reserved
VCC_OUT0
ENC_Z
ENC_B
ENC_A
n.c.
LASER_AOUT
VCC_EXT
GND_EXT
RS232_RX
RS232_TX
VCC_OUT1
VCC_IN0
VCC_IN1
LASER_AIN
LASER-DOUT
GND

Outer shielding extended

PIN	Open wire
1	Violet wire
2	Pink/ Black wire
3	Blue/ White wire
4	Blue wire
5	Grey wire
6	Violet/ White wire
7	Light Green wire
8	Yellow wire
9	Yellow/ Black wire
10	Light Blue wire
11	Light Blue/ Black wire
12	Pink wire
13	Black/ White
14	Black wire
15	Light Green Black wire
16	Brown wire
17	Grey wire

CABLE MISC-FULL

3. AT C2-CABLE C-I/O-OP-xM



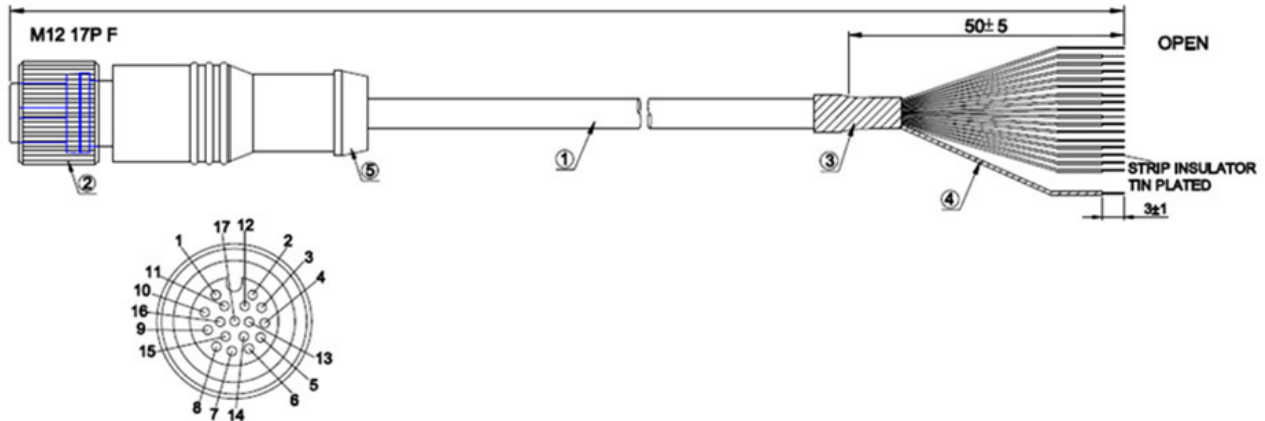
AT-C2-Series
Reserved
VCC_OUT0
ENC_Z
ENC_B
ENC_A
n.c.
LASER_AOUT
VCC_EXT
GND_EXT
RS232_RX
RS232_TX
VCC_OUT1
VCC_IN0
VCC_IN1
LASER_AIN
LASER-DOUT
GND

Outer shielding extended

PIN	Open wire
1	Violet wire
2	Violet/ White wire
3	Yellow wire
4	Yellow/ Black wire
5	Light Green wire
6	Light Green/ Black wire
7	Light Blue wire
8	Light Blue/ Black wire
9	Black/ White wire
10	Black wire
11	Pink/ Black wire
12	Pink wire
13	Brown wire
14	Brown/ White wire
15	Blue/ White wire
16	Blue wire
17	Grey wire

CABLE MISC-FULL

4. AT C5-CABLE I/O-(ANGLE / TRACK)-OP-xM(-D)



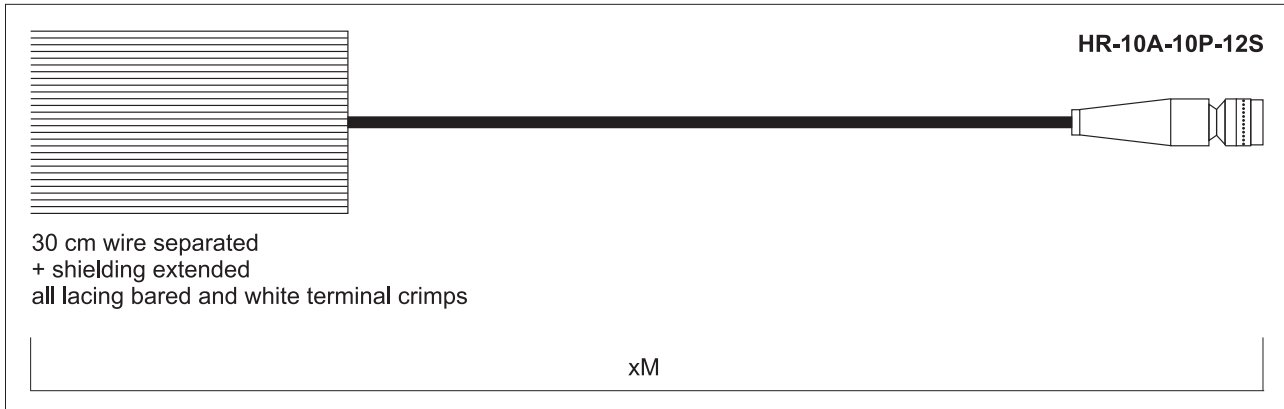
AT-C5-Series	
ENC_Z	---
VAO	---
ENC_Z+	---
ENC_B+	---
GND	---
ENC_B-	---
ENC_A-	---
VCC_EXT	---
GND_EXT	---
ENC_A+	---
ENC_GND	---
OUT2	---
IN1	---
IN2	---
OUT_Supply	---
OUT1	---
IO_GND	---

Outer shielding extended

PIN	Open wire
1	Violet wire
2	Black wire
3	Violet/ White wire
4	Yellow/ Black wire
5	Light Green wire
6	Yellow wire
7	Light Blue wire
8	Light Green/ Black wire
9	Black/ White wire
10	Light Blue/ Black wire
11	Pink/ Black wire
12	Pink wire
13	Brown wire
14	Brown/ White wire
15	Grey wire
16	Blue wire
17	Blue/ White wire

CABLE MISC-FULL

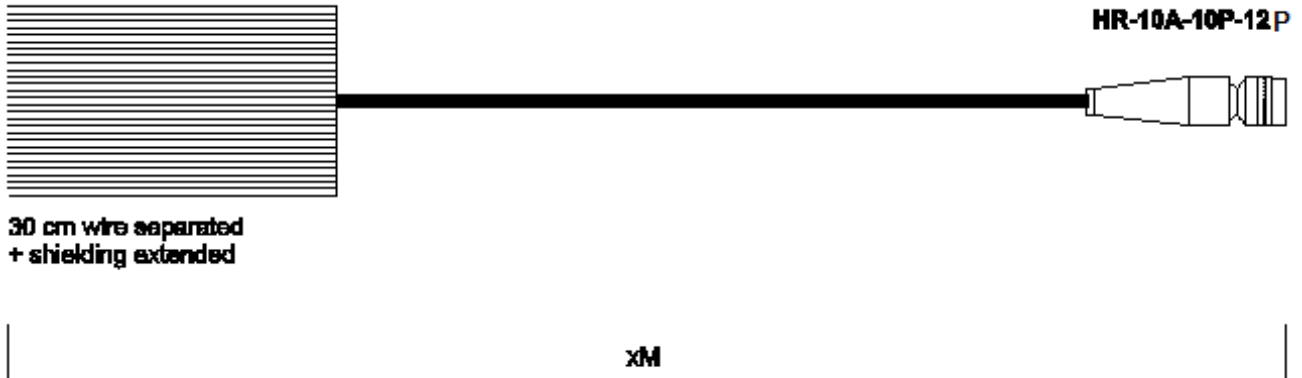
5. CABLE MISC FULL-AVT-GC GX-MANTA-OP-xM



AV GC	AV GX	AV	AV MANTA		PIN	HR-10A-10P-12S
External GND	External GND	External GND	External GND	---	1	Blue wire
External Power	External Power	External Power	External Power	---	2	Red wire
Camera In 1 – isolated	Camera Out 4	GPInput 3	---	---	3	Pink wire
Camera Out 1 – isolated	Camera In 1	GPInput 1	Camera In 1	---	4	Grey wire
Isolated Ground	Camera Out 3	GPOutput 3	---	---	5	Yellow wire
Video Iris	Camera Out 1	GPOutput 1	Camera Out 1	---	6	Green wire
DNC	Camera In GND	GPInput GND	Camera In GND	---	7	Brown wire
RS-232 TxD	RS-232 RxD	RxD	RxD RS232	---	8	White wire
RS-232 RxD	RS-232 TxD	TxD	TxD RS232	---	9	Black wire
Signal Ground	Camera Out Power	CameraOut Power	Camera Out Power	---	10	Red/blue wire
Camera In 2 – non-isolated	Camera In 2	GPInput 2	Camera In 2	---	11	Pink/grey wire
Camera Out 2 – non-isolated	Camera Out 2	GPOutput 2	Camera Out 2	---	12	Violet wire
Outer shielding extended		Outer shielding extended		---		Orange wire 0,34 mm ²

CABLE MISC-FULL

6. CABLE MISC-FULL-AV-GE-OP



AV GE-Series
In 1 (Syncln 1)
Out 2 (SyncOut 2)
Out 3 (SyncOut 3)
RXD – RS-232
TXD – RS-232
Reserved
Reserved
Reserved
Reserved
Isolated IO GND
Isolated IO GND
Isolated IO GND

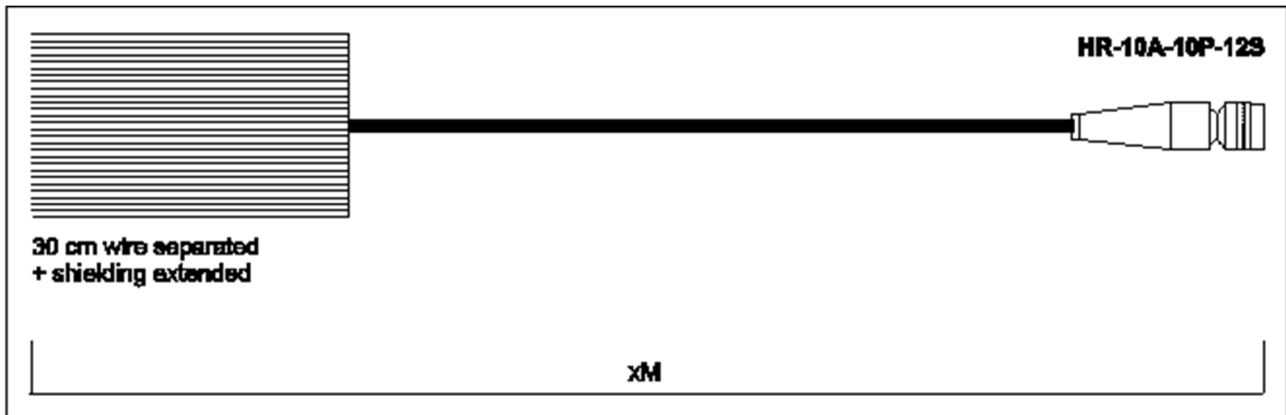
Outer shielding extended

PIN	HR-10A-10P-12P
1	Blue wire
2	Red wire
3	Pink wire
4	Grey wire
5	Yellow wire
6	Green wire
7	Brown wire
8	White wire
9	Black wire
10	Red/blue wire
11	Pink/grey wire
12	Violet wire

Orange wire 0,34 mm²

CABLE MISC-FULL

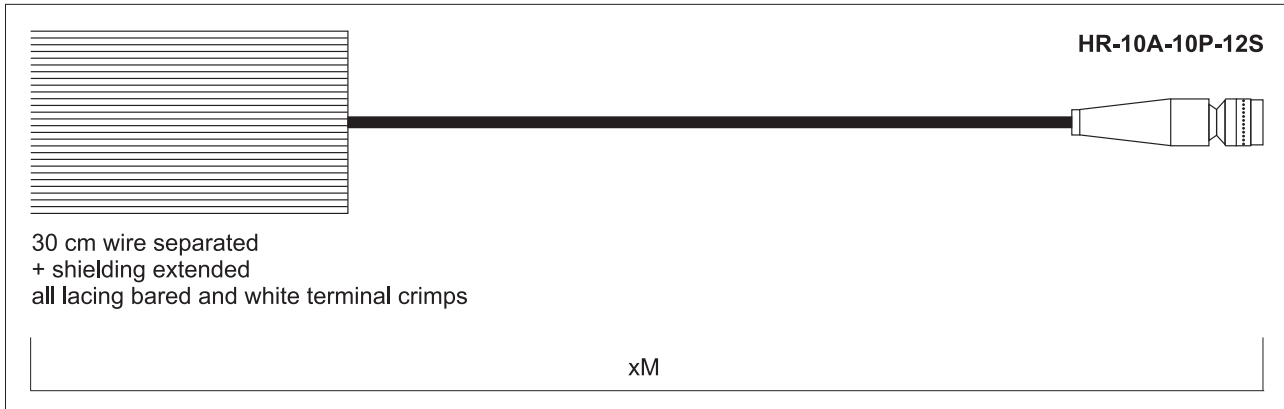
7. CABLE MISC-FULL-AV-OP-(TRACK)-xM



AV		PIN	HR-10A-10P-12S
External GND	---	1	Blue wire
External Power	---	2	Red wire
GPIInput 3	---	3	Pink wire
GPIInput 1	---	4	Grey wire
GPOOutput 3	---	5	Yellow wire
GPOOutput 1	---	6	Green wire
GPIInput GND	---	7	Brown wire
RxD	---	8	White wire
TxD	---	9	Black wire
CameraOut Power	---	10	Red/blue wire
GPIInput 2	---	11	Pink/grey wire
GPOOutput 2	---	12	Violet wire
Outer shielding extended			Orange wire 0,34 mm ²

CABLE MISC-FULL

8. CABLE MISC-FULL-BASLER-OP-xM



BASLER
Camera Input Power GND
Camera Input Power GND
I/O Input 1 (+5 to +24 VDC)
I/O Input 2 (+5 to +24 VDC)
I/O Input GND
I/O Output 1
I/O Output 2
Camera Input Power VCC (+12 to +24 VDC)
Camera Input Power VCC (+12 to +24 VDC)
I/O Output VCC (+5 to +24 VDC)
I/O Output 3
I/O Output 4

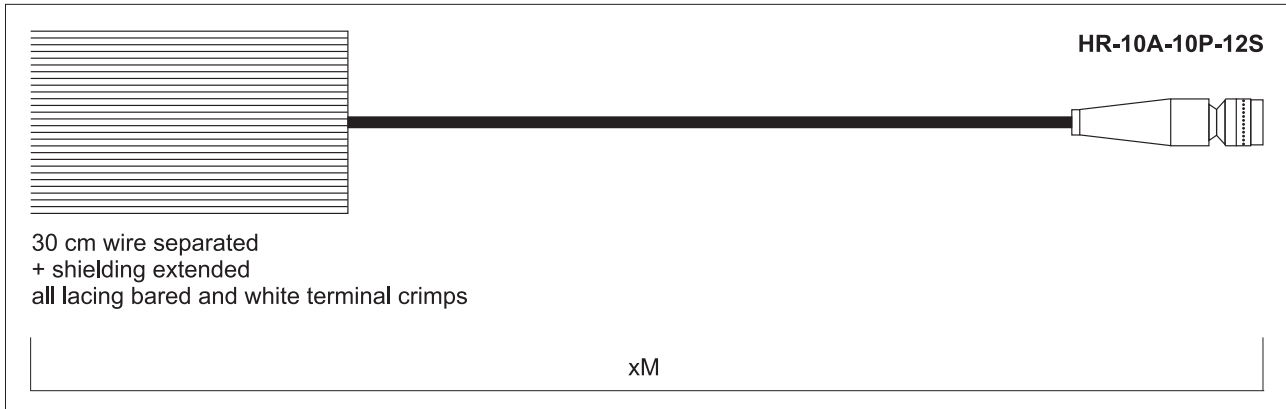
Outer shielding extended

PIN	HR-10A-10P-12S
1	Blue wire
2	Red wire
3	Pink wire
4	Grey wire
5	Yellow wire
6	Green wire
7	Brown wire
8	White wire
9	Black wire
10	Red/blue wire
11	Pink/grey wire
12	Violet wire

Orange wire 0,34 mm²

CABLE MISC-FULL

9. CABLE MISC-FULL-BASLER-RACER-GE-OP



BASLER
I/O Input1-
I/O Input 1+
I/O Input 3-
I/O Input 3+
GND
I/O Output 1-
I/O Output 1+
I/O Input 2-
I/O Input 2+
Not connected
I/O Output 2-
I/O Output 2+

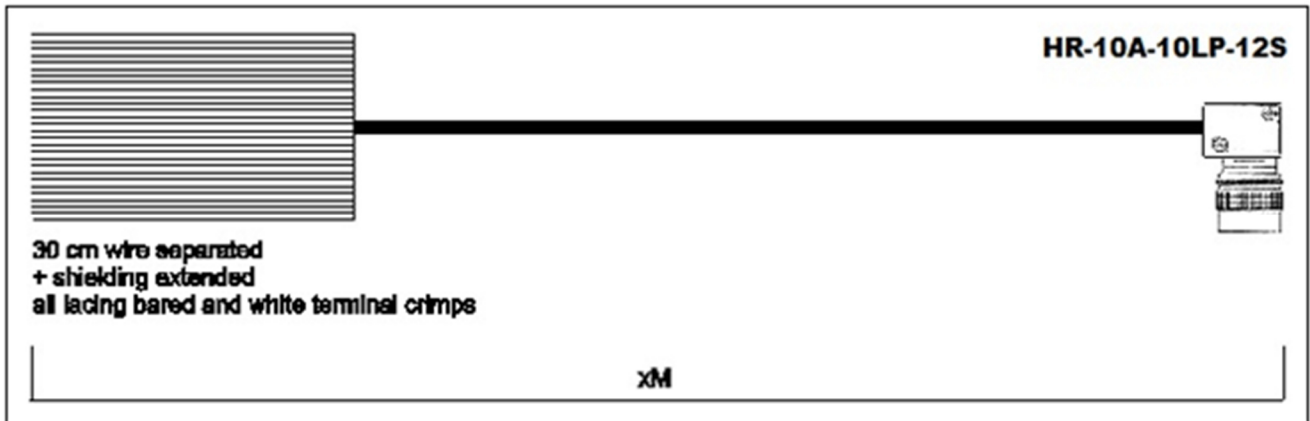
Outer shielding extended

PIN	HR-10A-10P-12S
1	Blue wire
2	Red wire
3	Pink wire
4	Grey wire
5	Yellow wire
6	Green wire
7	Brown wire
8	White wire
9	Black wire
10	
11	Pink/grey wire
12	Violet wire

Orange wire 0,34 mm²

CABLE MISC-FULL

10. CABLE MISC-FULL-FALCON2-ANGLE-xM-U



Dalsa Falcon 2
GND
+12V to +24V DC
Out0_C1
Out0_C2
In 1-
In 1+
Out1_C1 / Strobe_C1
Out1_C0 / Strobe_C0
GND
+12V to 24V DC
In 2+ / Trigger
In 2- / Trigger

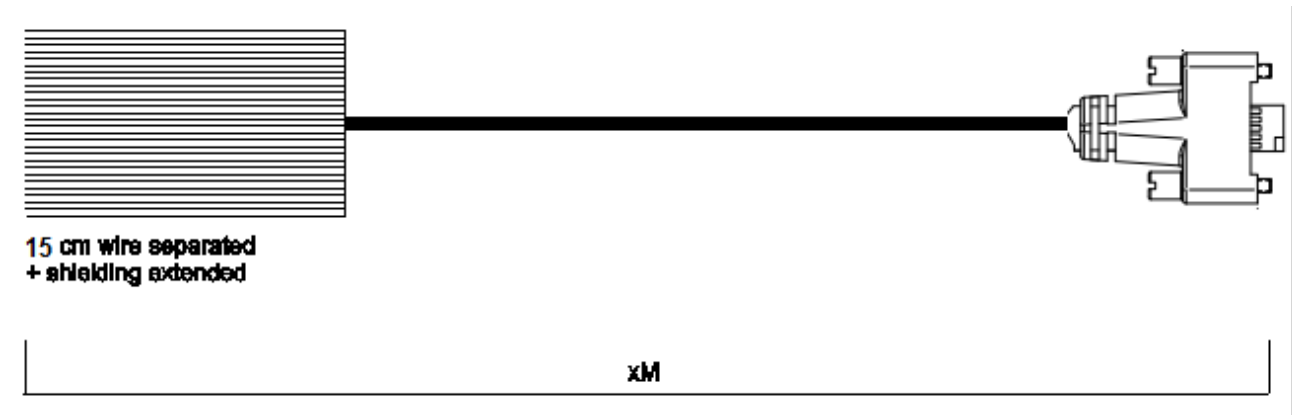
PIN	HR-10A-10LP-12S
1	Blue wire
2	Red wire
3	Pink wire
4	Grey wire
5	Yellow wire
6	Green wire
7	Brown wire
8	White wire
9	Black wire
10	Red/blue wire
11	Pink/grey wire
12	Violet wire

Outer shielding extended

Orange wire 0,34 mm²

CABLE MISC-FULL

11. CABLE MISC-FULL-GENIE-NANO-OP-xM

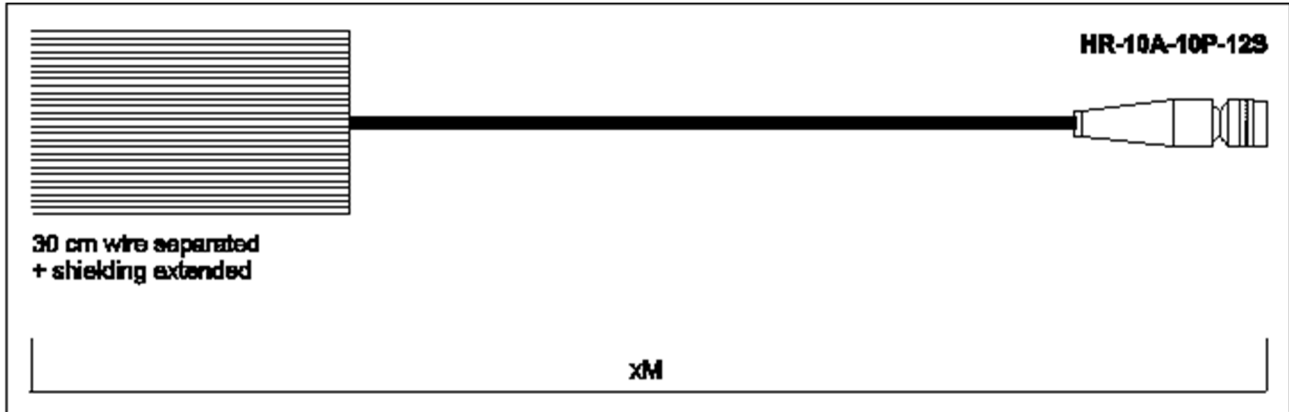


DALSA GENIE NANO	
PWR-GND	---
PWR-VCC	---
GPI-Common	---
GPO_Power	---
GPI 1	---
GPO 1	---
GPI 2	---
GPO 2	---
Reserved	---
CHASSIS	---

PIN	SAMTEC I/O connector
1	Black wire
2	Red wire
3	Brown wire
4	Orange wire
5	Yellow wire
6	Green wire
7	Blue wire
8	Violet wire
9	Grey wire
10	Outer shielding extended - Transparent heat shrink tube

CABLE MISC-FULL

12. CABLE MISC-FULL-GENIE-OP-xM



Dalsa Genie	
PWR GND	---
PWR GND	---
+VDC	---
Output 1-	---
Output 1+	---
Input 1- (RS-422- or TTL GND)	---
Input 1+ (RS-422+ or TTL)	---
Output 2+ (STROBE+)	---
Output 2- (STROBE-)	---
nc	---
nc	---
Input 2+ (RS-422+ or TTL)	---
Input 2 - (RS-422- or TTL GND)	---

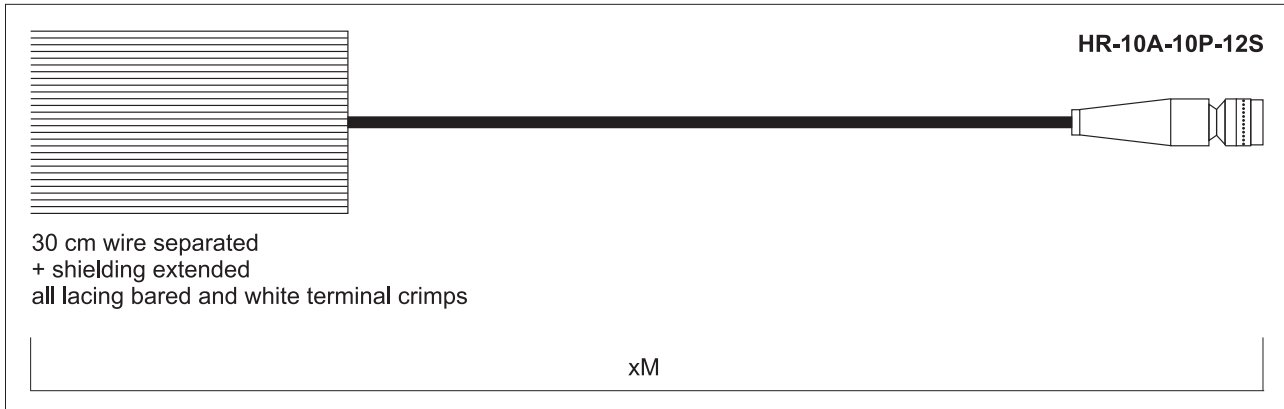
Outer shielding extended

PIN	HR-10A-10P-12S
1	Blue wire 0,34 mm ² (additional GND)
1	Blue wire
2	Red wire
3	White wire
4	Brown wire
5	Yellow wire
6	Green wire
7	Pink wire
8	Grey wire
9	
10	
11	Black wire
12	Violet wire

Orange wire 0,34 mm²

CABLE MISC-FULL

13. CABLE MISC-FULL-JAI-GE/C3-OP-xM



JAI C3-Series	JAI GE-Series
GND	GND
+12V DC	+12V DC
Opt IN 2 (-) / GND (Iris Video)	GND (Analog Video)
Opt IN 2 (+) / Iris Video Out	Analog Video
Opt IN 1 (-)	GND
Opt IN 1 (+)	Vinit
Opt OUT 1 (-)	External VD
Opt OUT 1 (+)	Strobe
Opt OUT 2 (-)	External HD
Opt OUT 2 (+)	Reserved
+12V DC	Reserved
GND	Reserved

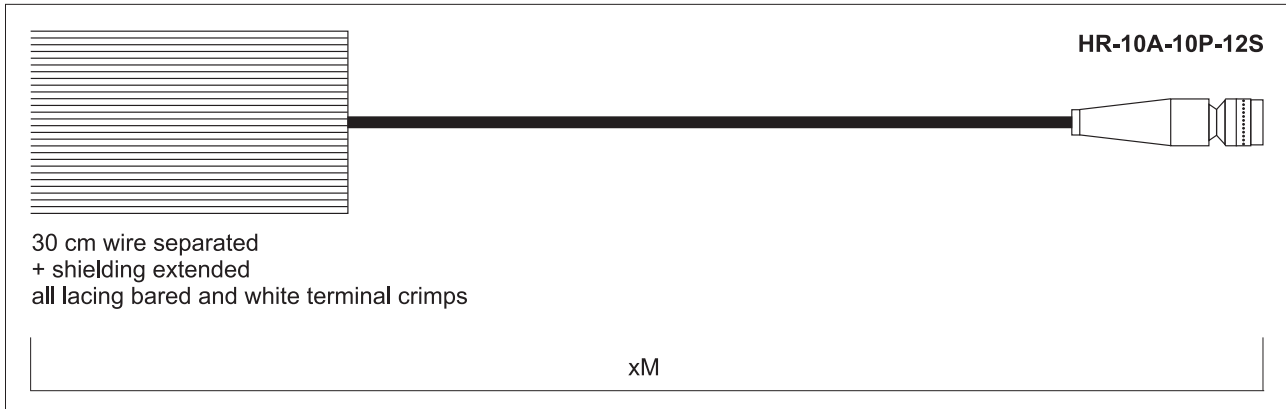
Outer shielding extended

PIN	HR-10A-10P-12S
---	1 Blue wire
---	2 Red wire
---	3 Pink wire
---	4 Grey wire
---	5 Yellow wire
---	6 Green wire
---	7 Brown wire
---	8 White wire
---	9 Black wire
---	10 Red/blue wire
---	11 Pink/grey wire (transparent heat shrink tube)
---	12 Violet wire (transparent heat shrink tube)

Orange wire 0,34 mm²

CABLE MISC-FULL

14. CABLE MISC-FULL-JAI-SP-EL-OP (JAI SPARK and ELITE)



JAI SPARK + ELITE PMCL	JAI SPARK + ELITE GE2	JAI SPARK + ELITE CXP / USB		PIN	HR-10A-10P-12S
GND	GND	GND	---	1	Blue wire
+12V to +24V DC	+12V to +24V DC	+12V to +24V DC	---	2	Red wire
GND (Iris Video)	Opt IN 2 (-)	GND	---	3	Pink wire
Iris Video Out	Opt IN 2 (+)	NC	---	4	Grey wire
NC	Opt IN 1 (-)	Opt IN (-)	---	5	Yellow wire
NC	Opt IN 1 (+)	Opt IN (+)	---	6	Green wire
NC	Opt OUT 1 (-)	Opt OUT (-)	---	7	Brown wire
NC	Opt OUT 1 (+)	Opt OUT (+)	---	8	White wire
TTL out 1	Opt OUT 2 (-)	TTL out 1	---	9	Black wire
TTL in 1	Opt OUT 2 (+)	TTL in 1	---	10	Red/blue wire
+12V to +24V DC	+12V to +24V DC	+12V to +24V DC	---	11	Pink/grey wire (transparent heat shrink tube)
GND	GND	GND	---	12	Violet wire (transparent heat shrink tube)

Outer shielding extended

Orange wire 0,34 mm²

CABLE MISC-FULL

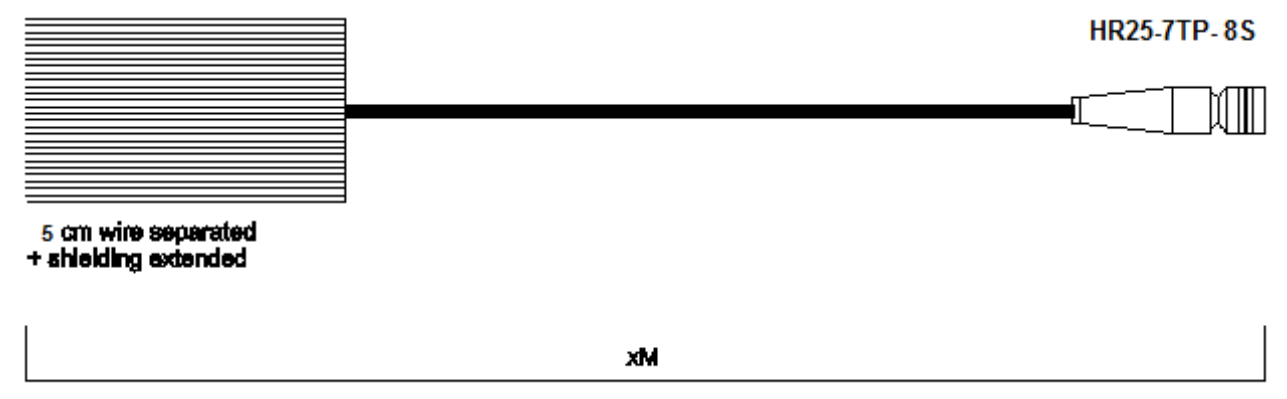
15. CABLE MISC-FULL-LINEA-GE-OP-(ANGLE/TRACK)-xM

Teledyne DALSA LINEA		PIN	DSUB 15 (3 lines), angle & standard version	Track Version
Line 1+	---	1	Green	Green
Line 1-	---	2	Black	Yellow
Line 2+	---	3	Yellow	Red
Line 2-	---	4	Black	Blue
Signal Ground	---	5	Brown / Black	Brown / White
Line 3+	---	6	Orange	Violet
Line 3-	---	7	Black	Black
Line 4+	---	8	Blue	Pink
Line 4-	---	9	Black	Grey
Line 5+	---	11	Violet	White / Green
Line 5-	---	12	Black	Green / Brown
Line 6+	---	13	Grey	Red / Blue
Line 6-	---	14	Black	Grey / Pink
PWR-VCC	---	15	Red	Yellow / Brown
PWR-GND	---	10	Black	White / Yellow

Main Shield AWG20 White

CABLE MISC-FULL

16. CABLE MISC-FULL-MAKO-(ANGLE-X)*-OP-xM



AV MAKO
Camera Out 1
Camera Out 2
Camera Out 3
Camera In 1
GND (for Input)
Power Input (for Output ports)
External Power
External GND

PIN	HR25-7TP-8S
1	Green wire
2	Brown wire
3	Yellow wire
4	Orange wire
5	Blue wire
6	Violet wire
7	Red wire
8	Black wire

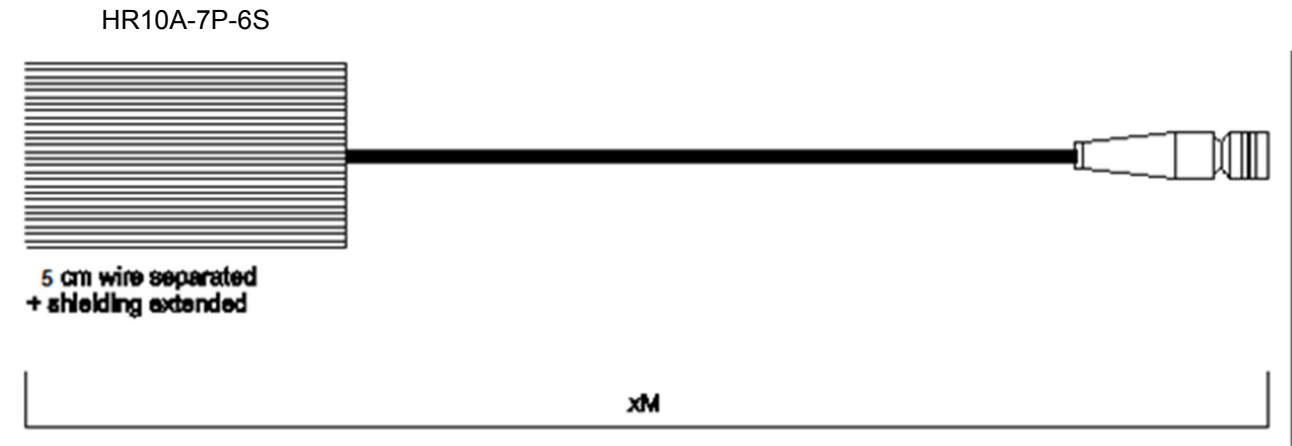
Main Shield

DRAIN / Grey wire 0,34 mm²

*ANGLE Version 90° = Connector direction **Up, Down, Left, Right**

CABLE MISC-FULL

17. CABLE MISC-FULL-MAKO-USB3-OP-XM



AV MAKO USB3 Version
Camera GPIO 1
Camera GPIO 2
Camera In 1
Camera Out 1
GND (for Input/Output)
GND (for GPIO

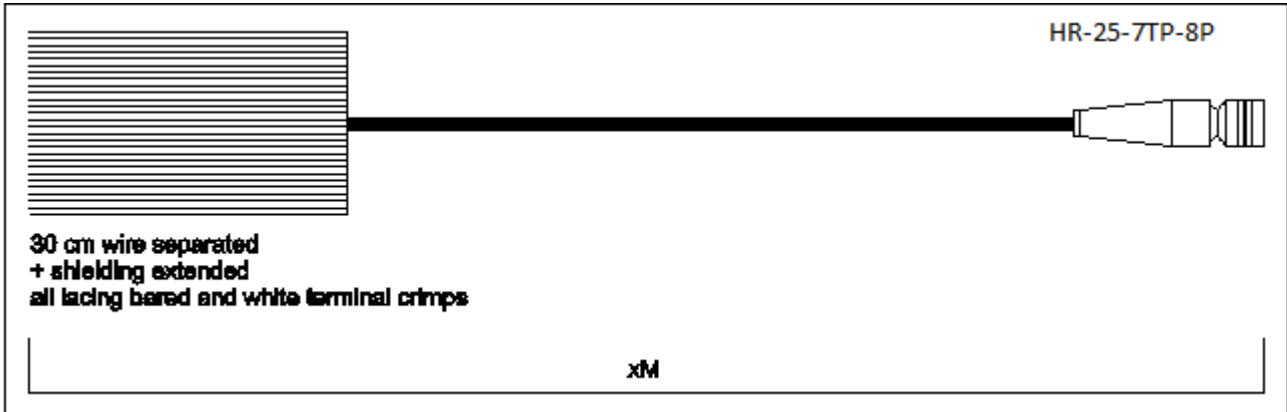
PIN	HR10A-7P-6S
1	Red wire
2	Yellow wire
3	Green wire
4	Orange wire
5	Brown wire
6	Black wire

Main Shield

Transparent heat shrink tube

CABLE MISC-FULL

18. CABLE MISC-FULL-PG-xM



PG
Power +12V DC
Opto Input 1
NC/ +3.3V
Opto Output 1
Opto GND
GND

Main Shield

PIN	HR25-7TP-8P
1	Green wire
2	Grey wire
3	Red wire
4	White wire
5	Blue wire
6	Brown wire

Transparent heat shrink tube

CABLE MISC-FULL

19. CABLE MISC-FULL-SPY-GE-OP-xM

DSUB 15 (male) 3 lines screws UNC 4-40		PIN	Colour	Open wire (split 30 cm) white wire end sleeves
INPUT_0+ (LVDS positive / TTL)	---	1	green	INPUT_0+ (LVDS positive / TTL)
INPUT_0- (LVDS negative)	---	2	black	INPUT_0- (LVDS negative)
INPUT_1+ (LVDS positive / TTL)	---	3	yellow	INPUT_1+ (LVDS positive / TTL)
INPUT_1- (LVDS negative)	---	4	black	INPUT_1- (LVDS negative)
INPUT_2+ (LVDS positive / TTL)	---	6	orange	INPUT_2+ (LVDS positive / TTL)
INPUT_2- (LVDS negative)	---	7	black	INPUT_2- (LVDS negative)
INPUT_3 (auxiliary TTL)	---	8	red	INPUT_3 (auxiliary TTL)
GND	---	5	black	GND
OUTPUT_3 (auxiliary TTL)	---	9	blue	OUTPUT_3 (auxiliary TTL)
GND	---	5	black	GND
OUTPUT_0+ (LVDS / TTL)	---	11	Violet	OUTPUT_0+ (LVDS / TTL)
OUTPUT_0- (LVDS negative)	---	12	black	OUTPUT_0- (LVDS negative)
OUTPUT_1+ (LVDS / TTL)	---	13	brown	OUTPUT_1+ (LVDS / TTL)
OUTPUT_1- (LVDS negative)	---	14	black	OUTPUT_1- (LVDS negative)
OUTPUT_2+ (LVDS / TTL)	---	10	grey	OUTPUT_2+ (LVDS / TTL)
OUTPUT_2- (LVDS negative)	---	15	black	OUTPUT_2- (LVDS negative)

Main shield

with AWG20 white

CABLE MISC-FULL

20. CABLE MISC-FULL-SPY-GE-OP-TRACK-xM

DSUB 15 (male) 3 lines screws UNC 4-40		PIN	Colour	Open wire (split 30 cm) white wire end sleeves
INPUT_0+ (LVDS positive / TTL)	---	1	green	INPUT_0+ (LVDS positive / TTL)
INPUT_0- (LVDS negative)	---	2	yellow	INPUT_0- (LVDS negative)
INPUT_1+ (LVDS positive / TTL)	---	3	rot	INPUT_1+ (LVDS positive / TTL)
INPUT_1- (LVDS negative)	---	4	blue	INPUT_1- (LVDS negative)
INPUT_2+ (LVDS positive / TTL)	---	6	white	INPUT_2+ (LVDS positive / TTL)
INPUT_2- (LVDS negative)	---	7	brown	INPUT_2- (LVDS negative)
INPUT_3 (auxiliary TTL)	---	8	Violet	INPUT_3 (auxiliary TTL)
GND	---	5	black	GND
OUTPUT_3 (auxiliary TTL)	---	9	pink	OUTPUT_3 (auxiliary TTL)
GND	---	5	grey	GND
OUTPUT_0+ (LVDS / TTL)	---	11	white-green	OUTPUT_0+ (LVDS / TTL)
OUTPUT_0- (LVDS negative)	---	12	green-brown	OUTPUT_0- (LVDS negative)
OUTPUT_1+ (LVDS / TTL)	---	13	reed-blue	OUTPUT_1+ (LVDS / TTL)
OUTPUT_1- (LVDS negative)	---	14	grey-pink	OUTPUT_1- (LVDS negative)
OUTPUT_2+ (LVDS / TTL)	---	10	yellow-brown	OUTPUT_2+ (LVDS / TTL)
OUTPUT_2- (LVDS negative)	---	15	white-yellow	OUTPUT_2- (LVDS negative)

Main shield

with AWG20 orange

CABLE MISC-FULL

21. DALSA XTium DH27 MISC-FULL-xM

Label		PIN	Colour	Frame Grabber Signal
red = Shaft Encoder A-	---	2	red	RS-422 Shaft Encoder Phase A (-)
white = Shaft Encoder A+	---	3	white	RS-422 Shaft Encoder Phase A (+)

red = Shaft Encoder B-	---	5	red	RS-422 Shaft Encoder Phase B (-)
green = Shaft Encoder B+	---	6	green	RS-422 Shaft Encoder Phase B (+)

black = Input GND	---	7	black	General Input Common Ground
yellow = Input 1	---	8	yellow	External Trigger Input 1 / General Input 1

orange = Input 2	---	9	orange	External Trigger Input 2 / General Input 2
black = Ground	---	10	black	Ground

green = Output 1		11	green	Strobe 1 / General Output 1
black = Ground		1	black	Ground
blue = Output 2		12	blue	General Output 2
black = Ground		4	black	Ground
black = Ground		13	black	Ground
red = Power + 12V		14	red	Power Output 12 Volts
white = Input 3		15	white	General Input 3
black = Input 4		16	black	General Input 4
brown = Output 3		21	Brown	General Output 3
black = Output 4		22	Black	General Output 4
		17,18,19		res.
		20,23,24		res.
		25,26,27		res.

Main shield

Transparent heat shrink tube

CABLE MISC-FULL

22. DALSA XTNUM DH27 TRIGGER-xM

Label
brown = Shaft Encoder A-
white = Shaft Encoder A+
green = Shaft Encoder B-
yellow = Shaft Encoder B+

Main shield

PIN	Colour	Frame Grabber Signal
2	Brown	RS-422 Shaft Encoder Phase A (-)
3	white	RS-422 Shaft Encoder Phase A (+)
5	green	RS-422 Shaft Encoder Phase B (-)
6	yellow	RS-422 Shaft Encoder Phase B (+)

Transparent heat shrink tube

BNC female – 0,3 meter
Input 1
BNC female – 0,3 meter
Input 1
BNC male – 0,3 meter
Output 1

7	Shield	General Input Common Ground
8	Signal	External Trigger Input 1 / General Input 1
9	Shield	External Trigger Input 2 / General Input 2
7	Signal	General Input Common Ground
11	Signal	Strobe 1 / General Output 1
10	Shield	Ground

CABLE MISC-FULL

23. Revision History

Revision	Date	Description
1.00	2015-09-23	Add: CABLE MISC-FULL-GENIE-NANO-OP-xM wiring code
1.01	2016-01-13	Add: CABLE MISC-FULL-AV-Marko-USB3-OP-xM
1.02	2016-03-14	Add: DALSA XTNUM DH27 MISC-FULL-xM
1.03	2016-04-21	Add: DALSA XTNUM DH27 TRIGGER-xM
1.03	2016-05-09	Correct: AT C2-CABLE C2-I/O-OP-xM – wire 17 colour
1.04	2017-02-01	Release Document
1.05	2017-03-30	Change CABLE MISC-FULL-“AVT” to “AV”
1.06	2017-12-07	Add: AT C5-CABLE-I/O...
1.07	2018-01-15	New layout
1.08	2018-07-17	Update “Cable Misc-Full-Mako- with ANGLE version.
1.09	2018-09-03	Add: CABLE MISC-FULL-SPY-GE-OP cables.
1.10	2018-09-07	Add: CABLE MISC-FULL-LINEA cables