

INT-RJ / INT-SM / INT-MM (EO)

Network Interface and cable tail of the Siqura SA or EX cameras

DESCRIPTION

----EoL----

The INT-RJ, INT-SM or INT-MM defines the interface/cable tail on the Siqura SA or EX camera. This option should always be defined together with the housing and the assembled camera. For INMETRO add '-IN' to the product name.

(These interfaces are not suited for the new EX3 and SA3 camera models, they need the "INT3-RJ / INT3-SM / INT3-MM")

FEATURES

INT-RJ(-IN): CAT 5e interface on RJ45

INT-SM(-IN): Single-mode fiber interface

INT-MM(-IN): Multi-mode fiber interface

ATEX certified armoured multicable

ATEX certified Ex d barrier glands

INMETRO certified (-IN versions only)



Description

SA-Housing

The SA housings can be fitted with direct fiber outputs by using the INT-SM for Ethernet over single-mode. For fast Ethernet connections (RJ45) the INT-RJ interface is needed. Special SA cable tails for Fast Ethernet or SM fiber at 5 or 10 meters are also available.

Ex-Housing

The Atex or EX-housings require a complete installed cable tail. The INT-RJ5 or INT-RJ10 define a EX cable tail for 100 Mb Fast Ethernet of 5 or 10 meter. INT-SM5 or INT-SM10 defines a single-mode connection with a 5 or 10 meter cable tail, and INT-MM similar for multi-mode. The cable tail is terminated by two Ex d barrier glands on both sides. At the open part of the cable the fiber is fitted with SC fiber connectors.

INMETRO

For INMETRO certified installations the cable tail has to be provided with INMETRO certified cable glands. Add `“-IN”` to the required cable.

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INT-RJ for EX cameras			
	INT-RJ	INT-RJ5	INT-RJ10
Network Interface	Fast Ethernet (10/100 Mb)	CAT6A STP (4x2xAWG24)	CAT6A STP (4x2xAWG24)
Connector	RJ45 female	RJ45 male	RJ45 male
Total max distance	60 m		
24Vac Washer control	3-pin termination block	(3) 2x0.22 STP white, black, shield	(3) 2x0.22 STP white, black, shield
Power interface	3-pin termination block	(1) 3x1.5 (L, N, PE) Black1, Black2, Yellow/green	(1) 3x1.5 (L, N, PE) Black1, Black2, Yellow/green
Cable length	0	5	10
Supported housings	EX-FIX, EX-FIX W, EX-FIX T	EX-FIX, EX-FIX W, EX-FIX T	EX-FIX, EX-FIX W, EX-FIX T SA-PTZ, SA-PTZ T, SA-PTZ DEX-PTZ, EX-PTZ T, EX-PTZ DEX-PTZ, EX-PTZ T, EX-PTZ D EX-PTZ, EX-PTZ T, EX-PTZ D(IR)

INT-SM for EX cameras			
	INT SM	INT-SM5	INT-SM10
Network Interface	1310 nm, 100Mb, OS1	1310 nm, 100Mb, OS1	1310 nm, 100Mb, OS1
Connector	2x Single mode SC	(4) 2x 9um/125um with SC	(4) 2x 9um/125um with SC
Total max distance	20 km	20km	20km
24Vac Washer control	3-pin termination block	(3) 2x0.22 STP white, black, shield	(3) 2x0.22 STP white, black, shield
Power interface	3-pin termination block	(1) 3x1.5 (L, N, PE) Black1, Black2, Yellow/green	(1) 3x1.5 (L, N, PE) Black1, Black2, Yellow/green
Cable length	0	5	10
Supported housings	all EX FIX and EX PTZ variants		

INT-MM for EX cameras			
	INT MM	INT-MM5	INT-MM10
Network Interface	1300 nm, 100Mb, OM1/OM2	1300 nm, 100Mb, OM2	1300 nm, 100Mb, OM2
Connector	2x multi-mode SC	(5) 2x 50um/125um with SC	(5) 2x 50um/125um with SC
Total max distance	2 km	2km	2km
24Vac Washer control	3-pin termination block	(3) 2x0.22 STP white, black, shield	(3) 2x0.22 STP white, black, shield
Power interface	3-pin termination block	3x1.5 (L, N, PE) Brown, Blue, Yellow/green	3x1.5 (L, N, PE) Brown, Blue, Yellow/green
Cable length	0	5	10
Supported housings	all EX FIX and EX PTZ variants		

EX cable gland specifications	
Cable glands	2x M25 Ex d barrier glands, nickel plated brass
Cable gland marking	II 2GD - Ex db IIC Gb Ex eb IIC Gb - Ex tb IIIC Db IP66/67
Operating temperature	-40°C to +90°C
Gland compliance	EN 60079-0; EN 60079-1; EN 60079-7; EN 60079-31 IEC 60079-0; IEC 60079-1; IEC 60079- 7; IEC 60079-15; IEC 60079-31

Specs



EX cable gland specifications

Cable gland INT-RJ5/10-IN (INMETRO)

- INMETRO Certificate	TV 12.2073X
- Cable gland marking	Ex eb IIC Gb / Ex db IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da IP66/IP66W
- Operating temperature	-60 °C to +85 °C
- INMETRO compliance	ABNT NBR IEC 60079-0:2013; ABNT NBR IEC 60079-1:2016; ABNT NBR IEC 60079-7:2017; ABNT NBR IEC 60079-15:2012; ABNT NBR IEC 60079-31:2014; ABNT NBR IEC 60529:2009. Portaria INMETRO n° 179 de 18/05/2010.

INT-RJ/SM/MM Cable specifications

Inner sheath	LSZH
Armour	Galvanized steel wire braid
Outer sheath	MUD-resistant, UV-resistant
Diameter (internal/external)	15.9 mm / 21.1 mm
Minimum bending radius	211 mm
Nominal weight	550kg/km
Cable compliance	IEC 60332-1 (Flame retardant); IEC 60332-3-24 (Flame resistant); IEC 60811-403 (Ozone resistant); IEC 60811-404 (Oil and fuel, hydrocarbons resistant); IEC 60811-402 (Water resistant); IEC 60754-1 (Halogen free); IEC 60754-2 (No corrosive); ASTM G 154 --- ASTM D 4587 --- EN ISO 11507 (Weathering resistant) ISO 4892 (U.V. radiation resistant)); 2011/65/EU + 2015/863/EU (RoHS 3); 2014/35/EC (LVD)
Marking	COMPOSITE ARMoured CABLE LSZH OIL RESISTANT FIRE RETARDANT UV RESISTANT -40/+90° /Lot nnnn - CE - MADE IN ITALY - metric marking

INT-RJ for SA cameras

	INT-RJ-SA20/25	INT-RJ5-SA20/25	INT-RJ10-SA20/25
Network Interface	Fast Ethernet (10/100 Mb)	(3) Cat. 6A, F/UTP (4x2x0.35mm)	(3) Cat. 6A, F/UTP (4x2x0.53mm)
Total max distance		60 m	60m
Connector	RJ45 female	RJ45 male	RJ45 male
24Vac Washer control	3-pin termination block	(2) 2x0.22 STP Grey, black	(2) 2x0.22 STP Grey, black
Power interface	3-pin termination block	(1) 3x1.5 (L, N, PE) (1) Black1, Black2, Yellow/green	(1) 3x1.5 (L, N, PE) (1) Black1, Black2, Yellow/green
Cable length	0	5	10
Cable gland	IP67 nickel-plated brass		
- SA20	M20x1,5		
- SA25	M25x1,5		
Supported housings	SA-FIX, SA-FIX W, SA-FIX T SA-FIX, SA-FIX W, SA-FIX T SA-FIX, SA-FIX W, SA-FIX T SA-PTZ, SA-PTZ T, SA-PTZ D SA-PTZ SA-PTZ T, SA-PTZ D SA-PTZ SA-PTZ T, SA-PTZ D, SA-PTZ L		

INT-SM for SA cameras

	INT SM	INT-SM5-SA20/25	INT-SM10-SA20/25
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Specs



INT-SM for SA cameras			
Network Interface	1310 nm, 100Mb, OS1	1310 nm, 100Mb, OS1	1310 nm, 100Mb, OS1
Connector	2x Single mode SC	(3) 2x 9um/125um with SC	(3) 2x 9um/125um with SC
Total max distance	20 km	20km	20km
24Vac Washer control	3-pin termination block	(2) 2x0.22 STP	(2) 2x0.22 STP
		2x Grey	2x Grey
Power interface	3-pin termination block	(1) 3x1.5 mm2 (L, N, PE)	(1) 3x1.5 mm2 (L, N, PE)
		Black1, Black2, Yellow/green	Black1, Black2, Yellow/green
Cable length	0	5	10
Supported housings	SA-FIX, SA-FIX W, SA-FIX T	SA-FIX, SA-FIX W, SA-FIX T	SA-FIX, SA-FIX W, SA-FIX T
	SA-PTZ, SA-PTZ T, SA-PTZ D	SA-PTZ, SA-PTZ T, SA-PTZ D	SA-PTZ, SA-PTZ T, SA-PTZ D, SA-PTZ L

SA cable specifications	
Operating temperature	-40°C +90°C (-40°F +194°F)
Inner sheath	LSZH
Outer sheath	UV Resistant
Cable dimensions	INT-RJxx-SA20/25 INT-SMxx-SA20/25
- Diameter (ext.)	15 mm 11.8 mm
- Minimum bending radius	12 x 15 mm 12 x 11.8 mm
Nominal weight	340 kg/km 280 kg/km
Marking INT-RJxx-SA20/25	COMPOSITE CABLE LSZH FLAME RETARDANT FLAME RESISTANT UV RESISTANT - 40°C/+90°C Lot.nnnn - CE MADE IN ITALY -metric marking
Marking INT-SMxx-SA20/25	TV SAUCC303518 COMPOSITE CABLE LSZH FLAME RETARDANT FLAME RESISTANT UV RESISTANT -40°C/+90°C H&C/Lot.nnnn CE MADE IN ITALY
Construction (gland)	Nickel plated brass
- SA25	M25x1.5
- SA20	M20x1.5
Certifications	
Ingress Protection	(EN 60529) IP68 (glands)
Standards	EN 50363 - IEC 60228 (as far as applicable); IEC 60332-1-2 (Flame retardant); IEC 60332-3-24 (F IEC 60754-1 (Halogen Free); 2014/35/EC (LVD), 2011/65/EU (RoHS)

Housing	Optical camera			Thermal camera		Interface / Cable tail					
	BC822v2H3-AS	BC980H2-AS	BC840v2-M04-AS	TC(R1) ² -336	TC(R1) ² -640	INT-RJ	INT-RJ5 ³ INT-RJ10	INT-SM	INT-SM5 ³ INT-SM10	INT-MM	INT-MM5 ³ INT-MM10
EX-FIX24 ¹	✓	✓	✓			✓	✓	✓	✓	✓	✓
EX-FIX24W	✓	✓	✓			✓	✓	✓	✓	✓	✓
EX-FIX24T				✓	✓	✓	✓	✓	✓	✓	✓
EX-PTZ24	✓	✓	✓			✓	✓	✓	✓	✓	✓
EX-PTZ24T				✓	✓	✓	✓	✓	✓	✓	✓
EX-PTZ24D	✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴	✓	✓	✓ ⁵	✓ ⁵	✓ ⁵	✓ ⁵
EX-PTZ24D-IR	✓	✓	✓			✓	✓	✓	✓	✓	✓
EX-PD24							✓				

Housing	Optical camera			Thermal camera		Interface / Cable tail					
	BC822v2H3-AS	BC980H2-AS	BC840v2-M04-AS	TC(R1) ² -336	TC(R1) ² -640	INT-RJ	INT-RJ5 INT-RJ10	INT-SM	INT-SM5 INT-SM10	INT-MM	INT-MM5 INT-MM10
SA-FIX24 ¹	✓	✓	✓			✓	✓	✓		✓	
SA-FIX24W	✓	✓	✓			✓	✓	✓		✓	
SA-FIX24T	✓	✓	✓	✓	✓	✓	✓	✓		✓	
SA-PTZ24	✓	✓	✓			✓	✓				
SA-PTZ24L							✓	✓	✓	✓	✓
SA-PTZ24T				✓	✓	✓	✓				
SA-PTZ24D	✓ ³	✓ ³	✓ ³	✓ ³	✓ ³	✓	✓	✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴
SA-PTZ24D-IR	✓	✓	✓			✓	✓	✓	✓	✓	✓
SA-PD24											

¹: This table also applies to EX and SA cameras versions in 115 Vac or 230 Vac.

²: R1 version is needed for hot-spot detection.

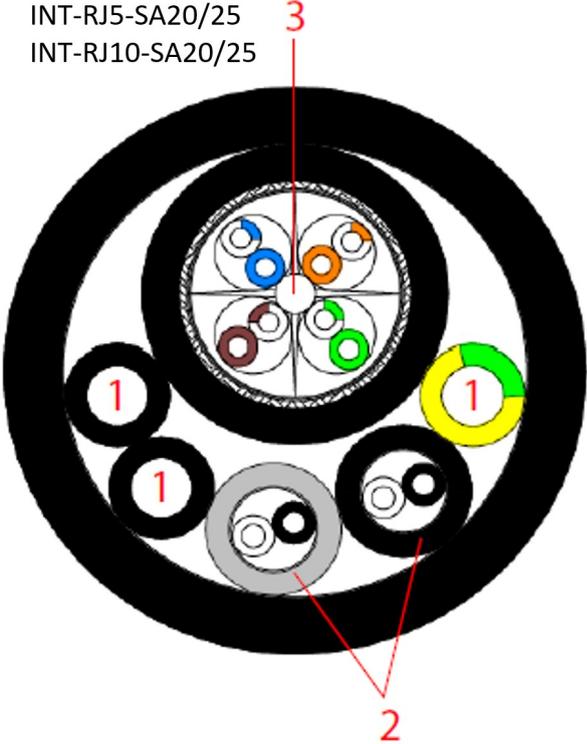
³: For INMETRO certification add '-IN' to the product name (e.g. INT-SM5-IN)

⁴: One optical and one thermal camera is required.

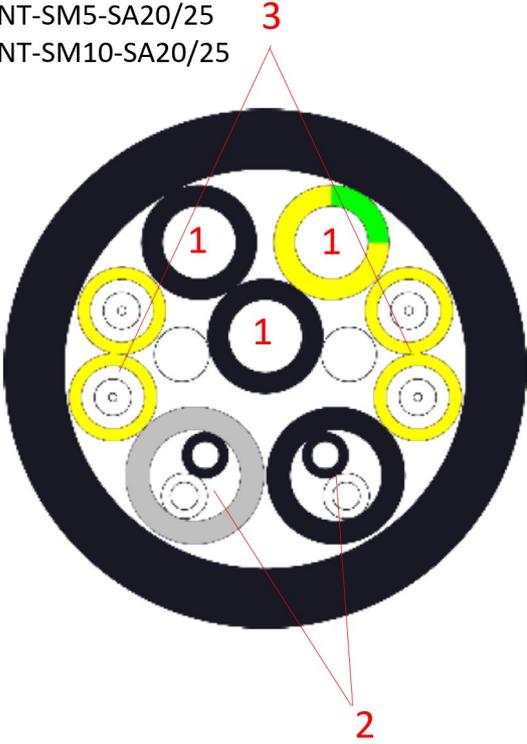
⁵: Special arrangements needed. Please contact TKH Security.

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INT-RJ5-SA20/25
INT-RJ10-SA20/25



INT-SM5-SA20/25
INT-SM10-SA20/25



INT3-RJ/SM/MM COMPOSITE CABLE ASSEMBLY

