

INT3-RJ / INT3-SM / INT3-MM

Network Interface and cable tail of the Siqura SA3 or EX3 cameras

DESCRIPTION

The INT3-RJ, INT3-SM, INT3-MM, and INT3-EoC specifications outline the interface and cable tail for the Siqura SA3 or EX3 camera. It is essential to define this option in conjunction with the housing and the assembled camera. For INMETRO compliance, simply add '-IN' to the product name.

FEATURES

INT3-RJ(-IN/-SA): CAT 5e interface on RJ45

INT3-SM(-IN/-SA): Single-mode fiber interface

INT3-MM(-IN): Multi-mode fiber interface

INT3-EoC: Ethernet over Coax interface

ATEX certified armoured multicable

ATEX certified Ex d barrier glands

INMETRO certified (-IN versions only)



Description

INT3 for EX3 Housings

The EX3 housings can be outfitted with direct fiber outputs using the INT3-SM interface for Ethernet over single-mode fiber and the INT3-MM for multimode fiber connections. For Fast Ethernet connections, such as those using CAT5e cables, the INT3-RJ interface is necessary.

In environments with explosion hazards, a specialized cable tail is required. The INT3-RJ5 and INT3-RJ10 models specify an EX cable tail, available in lengths of 5 or 10 meters. Conversely, the INT3-SM5 and INT3-SM10 models are designed for single-mode cables and the INT3-MM models for multimode cables. Each cable tail is equipped with two Ex d barrier glands at both ends to ensure secure termination.

INT3 for SA3 Housings

The SA3 housings can be equipped with direct fiber outputs by utilizing the INT3-SM interface for Ethernet over single-mode and the INT3-MM for multimode fiber. For fast Ethernet connections (e.g. CAT5e), the INT3-RJ interface is required. Additionally, specialized composite SA3 cable tails are available for Fast Ethernet or single-mode or multimode fiber, with lengths of 5 or 10 meters. The -SA20 model, featuring M20 cable glands, is compatible with the SA3-FIX housings, while the -SA25 version is designed for the SA3-PTZ housings.

Ethernet over Coax or UTP

The INT3-EoC extends Ethernet connectivity over Coax or UTP cables. The INT3-EoC5 and EoC10 models are constructed with specialized EX d conduit and conduit glands. Each INT3-EoC unit includes a corresponding module that converts the Ethernet signal back to RJ45. Additionally, a power supply is provided with the unit. The INT3-EoC is only available for ATEX environments.

INMETRO

For installations certified by INMETRO, it is essential to use cable tails equipped with INMETRO-certified cable glands. Please append -IN to the name of the required cable.

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INT3-RJ for EX cameras			
	INT3-RJ	INT3-RJ5	INT3-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	EX3-FIX, EX3-FIX W, EX3-FIX PTZ, EX3-PTZ T, EX3-PTZ D	EX3-FIX, EX3-FIX W, EX3-FIX PTZ, EX3-PTZ T, EX3-PTZ D	EX3-FIX, EX3-FIX W, EX3-FIX PTZ, EX3-PTZ T, EX3-PTZ D (IR)

INT3-SM for EX cameras			
	INT3-SM	INT3-SM5	INT3-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 EX3-FIX and EX3-PTZ variants		

INT3-MM for EX cameras			
	INT3-MM	INT3-MM5	INT3-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 EX3-FIX and EX3-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
Cable gland INT3-RJ5/10-IN (INMETRO)	

EX cable gland specifications

- 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.

INT3-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

INT3-EoC

	INT3-EoC	INT3-EoC5	INT3-EoC10
Network Interface	Ethernet over Coax	Ethernet over Coax	Ethernet over Coax
Connector	BNC	BNC	BNC
Conduit length	0	5	10
Supported housings	EX3-FIX, EX3-FIX W, EX3-FIX T, EX3-PTZ, EX3-PTZ T, EX3-PTZ D(IR)	EX3-FIX, EX3-FIX W, EX3-FIX T, EX3-PTZ, EX3-PTZ T, EX3-PTZ D(IR)	EX3-FIX, EX3-FIX W, EX3-FIX T, EX3-PTZ, EX3-PTZ T, EX3-PTZ D(IR)
Total max distance	1800 m (75 Ohm Coax)		
Max speed	up to 95 Mb/s		
Technology	Broadband over Power Lines (BPL)		
Standard	IEEE1901-2010 BPL		
Included in the box	External EoC converter incl. Power adapter		
- Size	85x77x25mm (LxWxH)		

INT3-RJ for SA3 cameras

	INT3-RJ-SA	INT3-RJ5-SA20/25	INT3-RJ10-SA20/25
Network Interface	Fast Ethernet (10/100 Mb)	(3) Cat. 6A, F/UTP (4x2x0.35mm)	(6) Cat. 6A, F/UTP (4x2x0.53mm)
Total max distance	60 m	60 m	60 m
Connector	RJ45 female	RJ45 male	RJ45 male
24Vac Washer control	3-pin termination block	(2) 2x0.22 STP	(2) 2x0.22 STP
		Grey, black	Grey, black

Specs



INT3-RJ for SA3 cameras

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 (For the SA3-FIX versions)		
- -SA25	M25x1,5 (For the SA3-PTZ versions)		

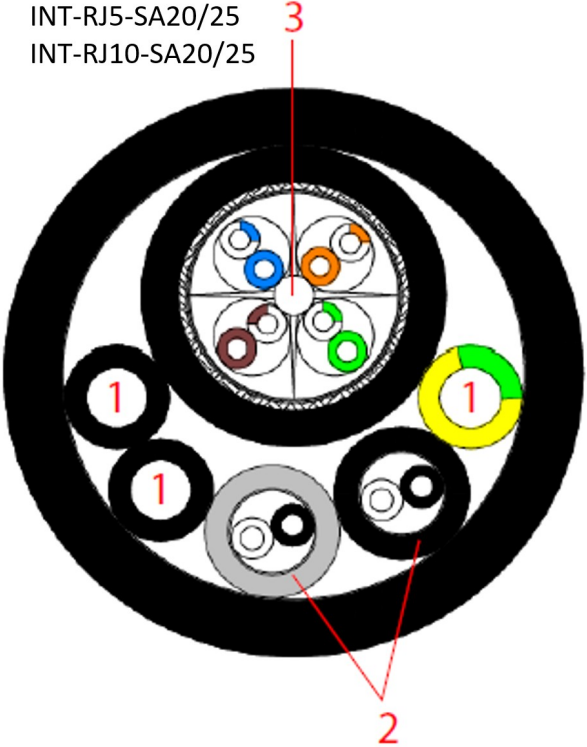
INT3-SM for SA3 cameras

	INT3-SM	INT3-SM5-SA20/25	INT3-SM10-SA20/25
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	20 km	20 km
24Vac Washer control	3-pin termination block	(2) 2x0.22 STP 2x Grey	(2) 2x0.22 STP 2x Grey
Power interface	3-pin termination block	(1) 3x1.5 mm2 (L, N, PE) Black1, Black2, Yellow/green	(1) 3x1.5 mm2 (L, N, PE) Black1, Black2, Yellow/green
Cable length	0	5	10
Cable gland	IP67 nickel-plated brass		
- -SA20	M20x1,5 (For the SA3-FIX versions)		
- -SA25	M25x1,5 (For the SA3-PTZ versions)		

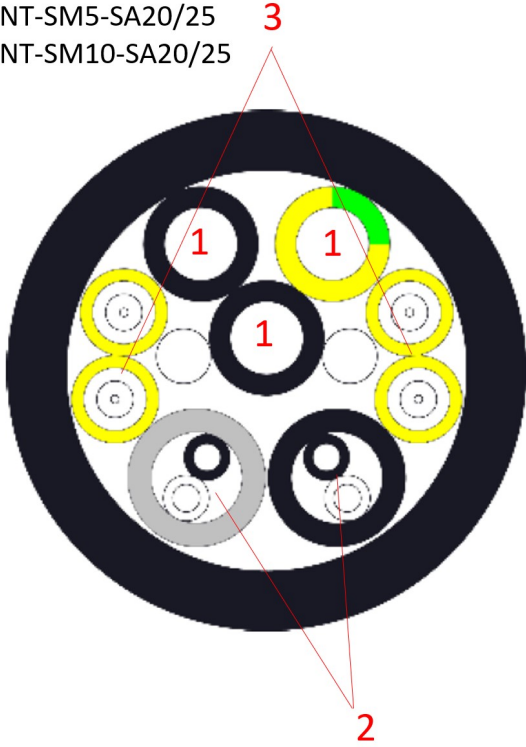
SA cable specifications

Operating temperature	-40°C +90°C (-40°F +194°F)	
Inner sheath	LSZH	
Outer sheath	UV Resistant	
Cable dimensions	INT3-RJxx-SA20/25	INT3-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 INT3-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 INT3-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)	

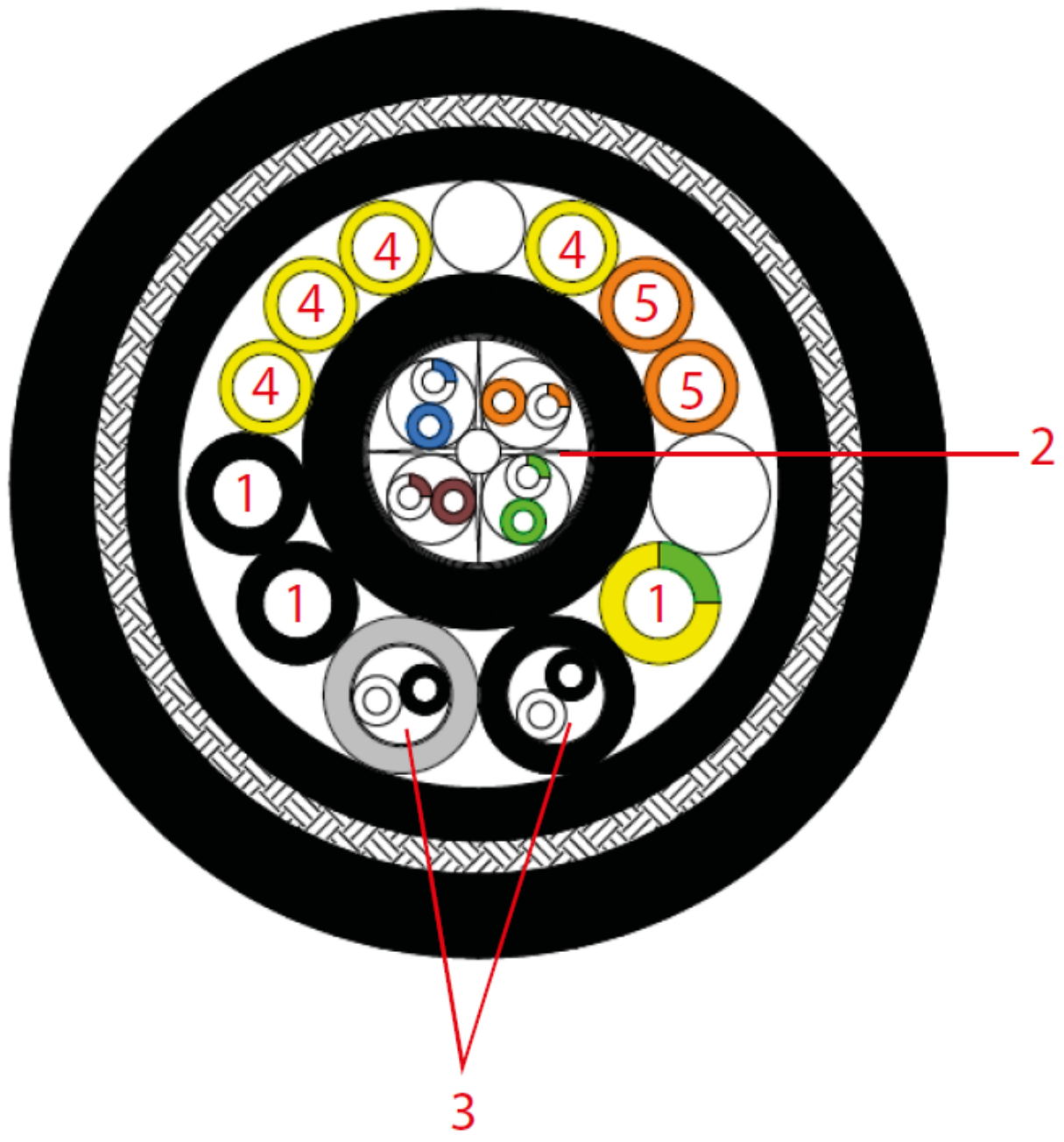
INT-RJ5-SA20/25
INT-RJ10-SA20/25



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



INT3-RJ/SM/MM COMPOSITE CABLE ASSEMBLY



INT3 COMPATIBILITY MATRIX

Interface (INT3) compatibility matrix

EX3 housings	CAT5 interface			Multimode fiber			Single mode fiber			Ethernet over Coax		
	No tail	5 m tail	10 m tail	No tail	5 m tail	10 m tail	No tail	5 m tail	10 m tail	No tail	5 m tail	10 m tail
EX3-FIX	INT3-RJ	INT3-RJ5	INT3-RJ10	INT3-MM	INT3-MM5	INT3-MM10	INT3-SM	INT3-SM5	INT3-SM10	INT3-EoC	INT3-EoC	INT3-EoC
EX3-FIX W												
EX3-FIX T												
EX3-PTZ												
EX3-PTZ T												
EX3-PTZ D												
EX3-PTZ D-IR												

SA3 housings	CAT5 interface			Multimode fiber			Single mode fiber			Ethernet over Coax		
	No tail	5 m tail	10 m tail	No tail	5 m tail	10 m tail	No tail	5 m tail	10 m tail	No tail	5 m tail	10 m tail
SA3-FIX	INT3-RJ	INT3-RJ5-SA20	INT3-RJ10-SA20	INT3-MM	INT3-MM5-SA20	INT3-MM10-SA20	INT3-SM	INT3-SM5-SA20	INT3-SM10-SA20	X	X	X
SA3-FIX W												
SA3-FIX T		INT3-RJ5-SA25	INT3-RJ10-SA25		INT3-MM5-SA25	INT3-MM10-SA25		INT3-SM5-SA25	INT3-SM10-SA25			
SA3-PTZ L												
SA3-PTZ T												
SA3-PTZ D												