

SENCITY® Spot-S



Features:

- UHF RFID or mobile communication small band antenna
- Polarization circular – right hand
- Frequency-band: 865 to 870 MHz
- Indoor/outdoor mounting IP66/IP67

Specifications

Electrical data	
Frequency (MHz)	865 to 870
VSWR	2
Gain (dBi)	3.5
3 dB beamwidth (h) (°)	135
3 dB beamwidth (v) (°)	90

General data	
Nominal impedance (Ω)	50
Polarisation	circular right
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.18 kg (0.40 lbs)
Connector	SMA (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1308.99.0004	84075241	SMA (female)

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Features:

- Directional, planar, linear vertical polarized WiFi antenna with 8.5 dBi gain
- WLAN IEEE 802.11 b/g – WiFi band 2.4 to 2.485 GHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	2400 to 2485
VSWR	1.5
Gain (dBi)	8.5
3 dB beamwidth (h) (°)	75
3 dB beamwidth (v) (°)	75
Front to back ratio (dB)	12

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or SMA (female) or QMA (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	–40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1324.17.0098	84073579	N (female)
1324.19.0057	84059620	SMA (female)
1324.35.0006	84062352	QMA (female)

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Features:

- Directional, planar, linear vertical polarized WiFi antenna with 8 dBi gain
- Cellular and DECT bands between 1710 and 1950 MHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data				
Frequency (MHz)	1710 to 1755	1755 to 1880	1880 to 1930	1930 to 1950
VSWR	2	1.5	2	2.5
Gain (dBi)	6.5	8	7	6.5
3 dB beamwidth (h) (°)	87	85	90	90
3 dB beamwidth (v) (°)	72	70	65	67
Front to back ratio (dB)	15	15	15	15

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height x width x depth)	101 x 81 x 36 mm (3.98 x 3.19 x 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1318.17.0015	85088775	N (female)

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Features:

- Directional, planar, linear vertical polarized WiFi antenna with 14 dBi gain
- WLAN IEEE 802.11 a/h/p – WiFi bands 5.15 to 5.975 GHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	5150 to 5975
VSWR	1.5
Gain (dBi)	14
3 dB beamwidth (h) (°)	40
3 dB beamwidth (v) (°)	35
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or SMA (female) or TNC (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1356.17.0077	84078981	N (female)
1356.19.0022	84059621	SMA (female)

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Features:

- Directional, planar, linear vertical polarized WiFi antenna with 13.5 dBi gain
- 4.9 up to 5.3 GHz for public safety wireless-networks
- WLAN/WiFi IEEE 802.11 a/h for Japan, Israel
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor applications IP66/67
- Wall mounting material included

Specifications

Electrical data		
Frequency (MHz)	4900 to 4940	4940 to 5350
VSWR	1.5	1.5
Gain (dBi)	13	13.5
3 dB beamwidth (h) (°)	40	40
3 dB beamwidth (v) (°)	35	35
Front to back ratio (dB)	20	20
Sidelobes (v)	15	

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or QN (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1351.17.0001	84088544	N (female)

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Features:

- Directional, planar, linear polarized dual-band WiFi antenna with 9 dBi gain
- WiFi bands 2.4 to 2.5 GHz and 5.150 to 5.975 GHz on one single port
- WLAN IEEE 802.11 a/b/g/h/p
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data		
Frequency (MHz)	2400 to 2500	5150 to 5935
VSWR	2	2
Gain (dBi)	9	9
Isolation (dB)	25	30
3 dB beamwidth (h) (°)	75	55
3 dB beamwidth (v) (°)	55	55
Front to back ratio (dB)	15	15

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1399.17.0210	84087864	N (female)

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Features:

- Directional, planar, linear polarized dual-band WiFi antenna with 9 dBi gain
- WLAN bands 2.4 to 2.5 GHz (port 1) and 5.150 to 5.975 GHz (port 2)
- WLAN IEEE 802.11 a/b/g/h/p
- Cellular/LTE 2600 band included at port 1
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	Band 1	Band 2
Frequency (MHz)	2400 to 2700	5150 to 5975
VSWR	2	2
Gain (dBi)	9	9
Isolation (dB)	25	35
3 dB beamwidth (h) (°)	80	47
3 dB beamwidth (v) (°)	55	30
Front to back ratio (dB)	18	18

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.13 kg (0.29 lbs)
Connector	SMA (female) for port 1 (band 1) and port 2 (band 2)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1399.19.0221	85007705	SMA (female)

SENCITY® Spot-S 2×2 MIMO



Features:

- Directional, planar, linear polarized WiFi antenna with 8 dBi gain
- Dual-slant $\pm 45^\circ$ for 2x2 WiFi MIMO antenna configuration
- WLAN IEEE 802.11 b/g/n WiFi band 2.4 to 2.485 GHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	2400 to 2485
VSWR	1.5
Gain (dBi)	8
Isolation (dB)	25
3 dB beamwidth (h) (°)	75
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	14

General data	
Nominal impedance (Ω)	50
Polarisation	$\pm 45^\circ$ slant
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	100 × 81 × 36 mm (3.94 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or SMA (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1324.17.0099	84078979	2 × N (female)
1324.19.0056	84059618	2 × SMA (female)

SENCITY® Spot-S 2×2 MIMO



Features:

- Directional, planar, linear polarized WiFi antenna with 9 dBi gain
- Dual-slant $\pm 45^\circ$ for 2x2 WiFi MIMO antenna configuration
- WLAN IEEE 802.11 a/h/p/n – WiFi band 5.15 to 5.935 GHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	5150 to 5935
VSWR	2
Gain (dBi)	9
Isolation (dB)	20
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	60
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	$\pm 45^\circ$ slant
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or SMA (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1356.17.0076	84078980	2 × N (female)
1356.19.0023	84059684	2 × SMA (female)

SENCITY® Spot-S 3×3 MIMO



Features:

- Directional, planar, linear polarized WiFi MIMO antenna
- WLAN IEEE 802.11 a/h/n/p/ac, 3×3 MIMO with three ports
- WiFi 5 GHz bands 5.15 to 5.935 GHz
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	5150 to 5935
VSWR	1.7
Gain (dBi)	8
Isolation (dB)	17
3 dB beamwidth (h) (°)	65
3 dB beamwidth (v) (°)	65

General data	
Nominal impedance (Ω)	50
Polarisation	-45°/vertical/+45°
Composite power max. (W)	2

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.27 kg (0.59 lbs)
Connector	QMA (female) or N (male)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1356.35.0003	84125104	3 × QMA (female)
1356.17.0078	84076862	3 pigtails N (male)

SENCITY® Spot-S



Features:

- Planar indoor antenna
- Polarisation: linear vertical
- IEEE 802.16, IEEE 802.11 b/g
- Working range: 2300 to 2800 MHz WiFi/WLAN
- Half power beamwidth: 70°/75° (vert./hor.); 7.5 dBi gain
- Wall and mast mounting material included, supports mast diameter 40 to 60 mm

Specifications

Electrical data	
Frequency (MHz)	2300 to 2800
VSWR	1.5
Gain (dBi)	7.5
3 dB beamwidth (h) (°)	75
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 80 × 20 mm (3.98 × 3.15 × 0.79 in)
Weight	0.13 kg (0.29 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1324.19.0032	23019483	SMA (female)

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Features:

- Planar indoor antenna
- Directive antenna for GSM 1800 and UMTS, 1710 to 2170 MHz, 8 dBi, 80° HPBW, vertical polarisation

Specifications

Electrical data	
Frequency (MHz)	1710 to 2170
VSWR	1.8
Gain (dBi)	8
3 dB beamwidth (h) (°)	80
3 dB beamwidth (v) (°)	75
Front to back ratio (dB)	18

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height x width x depth)	101 x 80 x 20 mm (3.98 x 3.15 x 0.79 in)
Weight	0.13 kg (0.29 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1320.19.0001	23005585	SMA (female)

SENCITY® Spot-SR



Features:

- Small directional indoor antenna for WiFi applications
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, EN 45545-2

Specifications

Electrical data	
Frequency (MHz)	2300 to 2500
VSWR	1.5
Gain (dBi)	8.5
3 dB beamwidth (h) (°)	75
3 dB beamwidth (v) (°)	60
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	75

Mechanical data	
Dimensions (height x width x depth)	101 x 95 x 32 mm (3.98 x 3.74 x 1.26 in)
Weight	0.11 kg (0.24 lbs)
Connector	TNC (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	PC (Polycarbonate)
Back/base plate colour	RAL 7035 (light-grey)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1324.26.0049	84026271	TNC (female)

SENCITY® Spot-SR



Features:

- Small directional indoor antenna for WiFi applications
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, EN 45545-2

Specifications

Electrical data		
Frequency (MHz)	5150 to 5250	5250 to 5875
VSWR	1.7	1.5
Gain (dBi)	9.5	9.5
3 dB beamwidth (h) (°)	60	60
3 dB beamwidth (v) (°)	55	55
Front to back ratio (dB)	18	18

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height x width x depth)	101 x 80 x 20 mm (3.98 x 3.15 x 0.79 in)
Weight	0.13 kg (0.29 lbs)
Connector	TNC (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	PC (Polycarbonate)
Back/base plate colour	RAL 7035 (light-grey)

Ordering information

Description	Item no.	Version
1356.26.0013	84026274	TNC (female)

SENCITY® Spot-S



Features:

- Planar indoor DECT antenna
- Polarisation: linear vertical
- Working range: 1850 to 1990 MHz
- Half power beamwidth: 65°/85° (vert./ hor.); 8 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	1850 to 1990
VSWR	1.5
Gain (dBi)	8
3 dB beamwidth (h) (°)	85
3 dB beamwidth (v) (°)	65
Front to back ratio (dB)	15

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height x width x depth)	101 x 95 x 32 mm (3.98 x 3.74 x 1.26 in)
Weight	0.115 kg (0.25 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1319.19.0003	22649572	SMA (female)

SENCITY® Spot-S



Features:

- Planar indoor DECT antenna
- Polarisation: circular polarised
- Working range: 1850 to 1990 MHz
- Half power beamwidth: 70 °/70 ° (vert./hor.); 8 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	1850 to 1990
VSWR	1.5
Gain (dBi)	8
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	circular left
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 95 × 32 mm (3.98 × 3.74 × 1.26 in)
Weight	0.115 kg (0.25 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1319.19.0004	22650455	SMA (female) polarisation LHCP circular left-hand
1319.19.0005	22650451	SMA (female) polarisation RHCP circular right-hand

SENCITY® Spot-S



Features:

- RHCP planar indoor antenna
- Polarization: circular – right hand
- IEEE 802.16 and IEEE 802.11 b/g
- Working range: 2300 to 2500 MHz WiFi/WLAN
- Half power beamwidth: 65°/70° (vert./hor.); 8.5 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	2300 to 2500
VSWR	1.5
Gain (dBi)	8.5
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	65
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	circular right
Composite power max. (W)	10

Mechanical data	
Dimensions (height x width x depth)	101 x 95 x 32 mm (3.98 x 3.74 x 1.26 in)
Weight	0.11 kg (0.24 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1324.19.0008	22650442	SMA (female)

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Features:

- Planar indoor DECT antenna
- Polarisation: dual linear, $\pm 45^\circ$ slant
- Working range: 1880 to 1930 MHz
- Half power beamwidth: $75^\circ/85^\circ$ (vert./hor.); 8 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	1880 to 1930
VSWR	1.5
Gain (dBi)	8
Isolation (dB)	30
3 dB beamwidth (h) (°)	85
3 dB beamwidth (v) (°)	75
Front to back ratio (dB)	12

General data	
Nominal impedance (Ω)	50
Polarisation	$\pm 45^\circ$ slant
Composite power max. (W)	10

Mechanical data	
Dimensions (height x width x depth)	101 x 95 x 32 mm (3.98 x 3.74 x 1.26 in)
Weight	0.11 kg (0.24 lbs)
Connector	TNC (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1319.26.0027	22659404	2 x TNC (female)