# TELLESTAR 2021년
# MINI CATALOG

## Antennas &
## RF CON NECTOR &
## RF CABLE ASS,Y &

Tellestar Co., Ltd.

# External UHF/VHF Antennas

| Application | VHF / UHF ANTENNA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency Range (MHz) | 424MHz | 447MHz | 424MHz<br>447MHz<br>선택 | 424MHz<br>447MHz<br>선택 | | | | | 447MHz |
| Part No. | TE-LFT168F S424 | TE-LFT168F S447 | TE424ST-K55 | WHIP ANT | | | | | TE-LFT168F S447 |
| Size (mm) | 160X11 | 160X11 | 55*14mm | 200*14mm | | | | | 41X6mm |
| Peak Gain (dBi) | -1 | 0 | -2dBi | -2dBi | | | | | 0 |
| Avg. Gain (dBi) | TBD | TBD | TBD | TBD | | | | | TBD |
| VSWR (Max.) | 2.0 : 1 | 2.0 : 1 | 2.0:1 | 2.0:1 | | | | | 2.0 : 1 |
| Directivity | Omni | Omni | Omni | Omni | | | | | Omni |
| Impedance (Ω) | 50 | 50 | 50 | 50 | | | | | 50 |
| Connector/ Mounting | SMA Male | SMA Male | SMA Male | SMA Male | | | | | SOLDING |
| Photo |  |  |  |  | | | | |  |

# External LORA&LTE& NB IOT&LTE Cat M1 Antennas

| Application | LORA / NB IOT /LTE Cat M1 /LTE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency Range (MHz) | 902~928 MHz | 698~2700 MHz | 902~928 MHz | 902~928 MHz | 902~928 MHz | 824~894 MHz | 824~894 1710~1880 MHz | 902~928 MHz | |
| Part No. | TE-LFT168F S900 | LTE MINI#3-1 | TE-NBF-XX | TE16-LORA-16 | TE-LORA168F | TE-LFT168F S3 800 | TE-800RA-CH5 40 | TE-900RA-CH5 80 | |
| Size (mm) | 160X11 | 105 x 11 | 30 x 8 | 225 x 26 | 500 x 20 | 160X11 | 42mm | 77.5mm | |
| Peak Gain (dBi) | 2 | 2 | 0 | 2 | 4 | 2 | 2 | 2 | |
| Avg. Gain (dBi) | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | |
| VSWR (Max.) | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | |
| Directivity | Omni | Omni | Omni | Omni | Omni | Omni | Omni | Omni | |
| Impedance (Ω) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| Connector/ Mounting | SMA Male | SMA Male | SMA Male | N type Male | N type Male | SMA Male | SMA Male | SMA Male | |
| Photo |  |  |  |  |  |  |  |  | |

# External NB IOT & LTE-Cat M1 & LTE & 5G Antennas

| Application | NB IOT / LTE-M /LTE /5G | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency Range (MHz) | 824~894 1710~1880 MHz | 600~6000 MHz | 698~4000 MHz | 698~2700MHz | 698~3800 MHz | 600~6000 MHz | 780~2700 MHz | 698~894 1710~2700 MHz | 698~894 1710~2700 MHz |
| Part No. | TE-LFT168F S3-1 | TE-LTF168F S3-3W V1.1 | TE-LORA168F S3-4W | LTE MINI#3-1 | LTE MINI#3 | S2-3 | TE16-LORA-16 | TE-NB53-XX | TE-NB53L-XX M3-3 |
| Size (mm) | 160 × 11 | 160X11 | 160X11 | 105 x 11 | 105 x 11 | 172 × 23 | 225 x 26 | 120X13 | 105X13 |
| Peak Gain (dBi) | 2 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 2 |
| Avg. Gain (dBi) | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| VSWR (Max.) | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 |
| Directivity | Omni | Omni | Omni | Omni | Omni | Omni | Omni | Omni | Omni |
| Impedance (Ω) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Connector/ Mounting | SMA Male | SMA Male | SMA Male | SMA Male | SMA Male | SMA Male | N type Male | SMA Male IP6 | SMA Male IP6 |
| Photo |  |  |  |  |  |  |  |  |  |

# External WIFI & 마그네틱 Antennas

| Application | WIFI / BLE / 2.4G | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency Range (MHz) | 2400~2485 5150~5875 MHz | 2400~2485 5150~5875 MHz | 2400~2485 5150~5875 MHz | 698~4000 MHz | 2400~2485 5150~5875 MHz | | | | |
| Part No. | TE-LFT168F S3 WIFI | LTE TE-2450RO-03D | TE-WDM-285MG | TE-LFTM-245MG | LTE TE-2450RO-03D | | | | |
| Size (mm) | 160 × 11 | 105 x 11 | 155*35mm | 155*35m | 108 x 10mm | | | | |
| Peak Gain (dBi) | 2 | 2 | 4~6 | 2 | 2 | | | | |
| Avg. Gain (dBi) | TBD | TBD | TBD | TBD | TBD | | | | |
| VSWR (Max.) | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | | | | |
| Directivity | Omni | Omni | Omni | Omni | Omni | | | | |
| Impedance (Ω) | 50 | 50 | 50 | 50 | 50 | | | | |
| Connector/ Mounting | SMA Male | SMA Male | SMA Male | SMA Male | SMA Male | | | | |
| Photo |  |  |  |  |  | | | | |

# External WIFI & BLE &800M & 900M CHIP Antennas

| Application | WIFI / BLE / 2.4G / CHIP ANTENNA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency Range (MHz) | 2400~2485 MHz | 3400~3800 MHz | 2400~2485 MHz | 824~849 MHz | 902~928 MHz | | | | |
| Part No. | TC245W12 | TC348W12 | TC421W12 | TC890W12 | TC890W12 | | | | |
| Size (mm) | 9*3*1.2 | 9*3*1.2 | 4*2*1.2 | 11*3*1.2 | 11*3*1.2 | | | | |
| Peak Gain (dBi) | 2 | 2 | 0 | -1 | -1 | | | | |
| Avg. Gain (dBi) | TBD | TBD | TBD | TBD | TBD | | | | |
| VSWR (Max.) | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | | | | |
| Directivity | Omni | Omni | Omni | Omni | Omni | | | | |
| Impedance (Ω) | 50 | 50 | 50 | 50 | 50 | | | | |
| Connector/ Mounting | SMT | SMT | SMT | SMT | SMT | | | | |
| Photo |  |  |  |  |  | | | | |

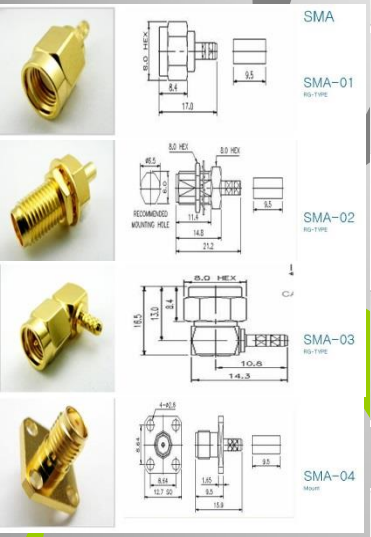
# Internal LORA/NB IOT / LTE-Cat M1 /LTE 5G Antennas

| Application | LORA / NB IOT / LTE-M/LTE/LTE 5G<br>DESIGN GUIDE NEED | | | | | |
|---|---|---|---|---|---|---|
| Frequency Range (MHz) | 902~928<br>824~894<br>MHz | 902~928<br>MHz | 902~928<br>MHz | 780~4000<br>MHz | 698~4000<br>MHz | 600~6000<br>MHz |
| Part No. | TI-LR-00 | W7I-LH-00 | TI-LORAC-XXX | M3 IOT | S3-4W | S2-3 |
| Size (mm) | 11 × 3 x 1.2 | 15 × 4.5 | 68 x 8 x 0.8 | 70*8 | 128*8 | 120*15 |
| Peak Gain (dBi) | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg. Gain (dBi) | TBD | TBD | TBD | TBD | TBD | TBD |
| VSWR (Max.) | 2.0 : 1 | 2.0 : 1 | 2.0 : 1 | 8.0:1 /3.0:1 | 8.0:1 /3.0:1 | 8.0:1 /3.0:1 |
| Directivity | Omni | Omni | Omni | Omni | Omni | Omni |
| Impedance (Ω) | 50 | 50 | 50 | 50 | 50 | 50 |
| Type/ Mounting | Chip | Helical | PIFA | IPEX MHF1 /4L | IPEX MHF1 /4L | IPEX MHF1 /4L |
| Photo |  |  |  |  |  |  |

# Internal LORA/NB IOT / LTE-Cat M1 /LTE 5G Antennas

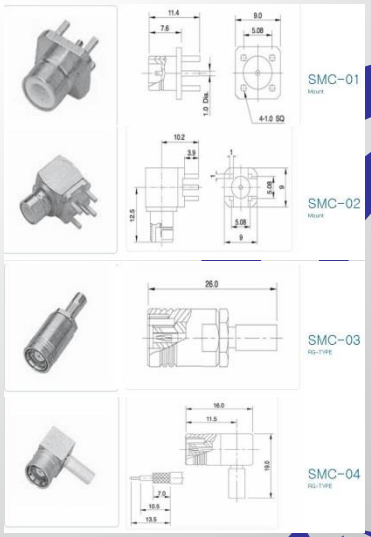
| Application | LORA / NB IOT / LTE-M/LTE/LTE 5G<br>DESIGN GUIDE NEED | | | | | |
|---|---|---|---|---|---|---|
| Frequency Range (MHz) | 698~6000 MHz | 780~6000 MHz | | | | |
| Part No. | S3-3W | S2-3-IOT | | | | |
| Size (mm) | 128*8 | 90*15 | | | | |
| Peak Gain (dBi) | 0 | 0 | | | | |
| Avg. Gain (dBi) | TBD | TBD | | | | |
| VSWR (Max.) | 8.0:1 /3.0:1 | 8.0:1 /3.0:1 | | | | |
| Directivity | Omni | Omni | | | | |
| Impedance (Ω) | 50 | 50 | | | | |
| Type/ Mounting | IPEX MHF1 /4L | IPEX MHF1 /4L | | | | |
| Photo |  |  | | | | |

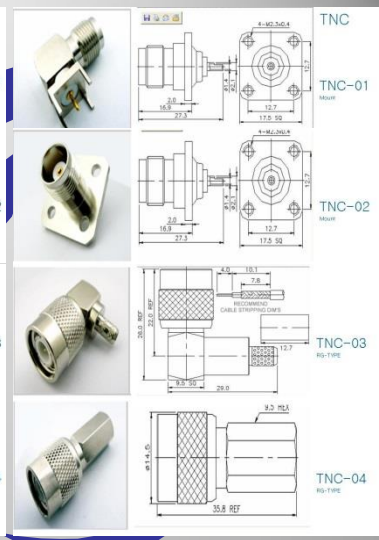
# Connector

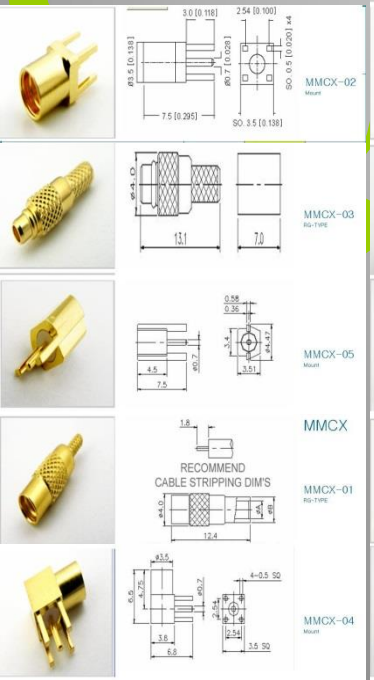

SMA
SMA-01
SMA-02
SMA-03
SMA-04

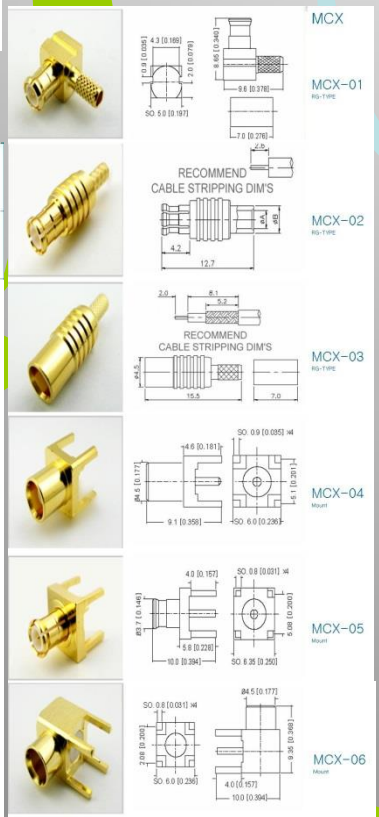

SMA-08
SMA-07
SMA-06
SMA-05

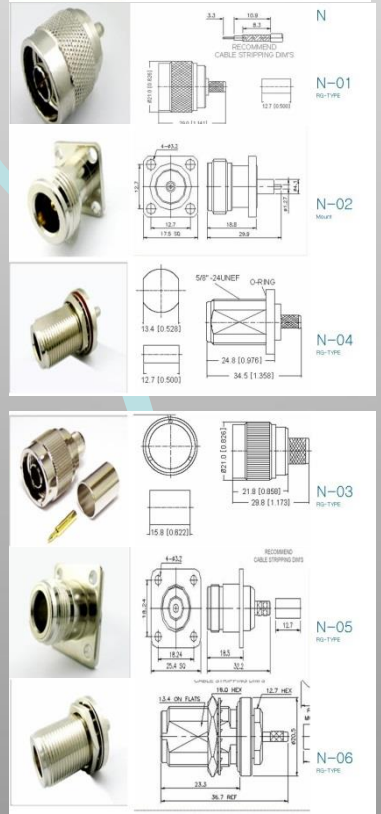

SMA-09
SMA-10
SMA-11
DIN-01
DIN-02

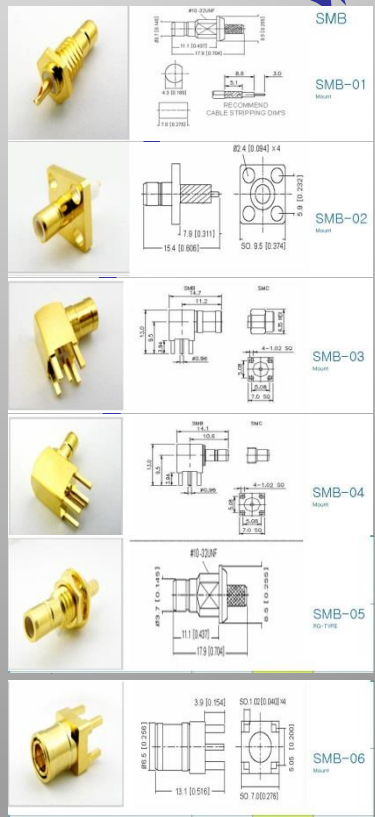

SMC-01
SMC-02
SMC-03
SMC-04

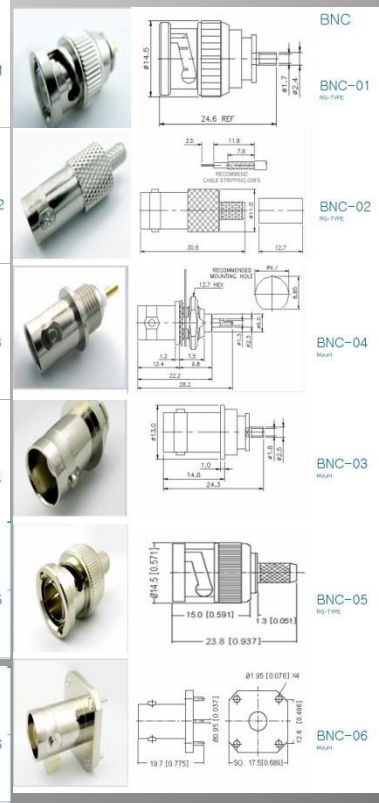

TNC
TNC-01
TNC-02
TNC-03
TNC-04


MMCX-02
MMCX-03
MMCX-05
MMCX
MMCX-01
MMCX-04


MCX
MCX-01
MCX-02
MCX-03
MCX-04
MCX-05
MCX-06

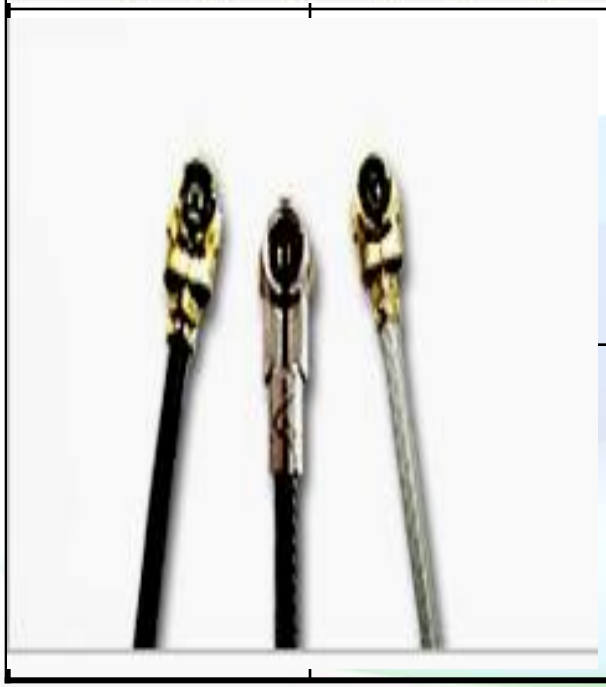

N
N-01
N-02
N-04
N-03
N-05
N-06


SMB
SMB-01
SMB-02
SMB-03
SMB-04
SMB-05
SMB-06


BNC
BNC-01
BNC-02
BNC-04
BNC-03
BNC-05
BNC-06







| Cable Assembly | RG-Series | Semi-Rigid | Flexible Cable |
|---|---|---|---|
| | RG-174<br>RG-178<br>RG-316<br>RG-400<br>RG-58 | UT-047<br>UT-085<br>UT-141 | UT-047<br>UT-085<br>UT-141 |
| | IPX Cable Ass,Y<br><br>OEM Ass,y | LMR-Series | |

# 텔레스타 회사 소개

http://cafe.naver.com/tellestar Technique & PHOTO

ETC ANTENNA / VHF /UHF ….

## WWW.tellestar.com


주 소 : 경기도 군포시 엘에스로 13 신일IT유토 1010호
영문주소: 1010-ho Shinil IT UTO 13 LS-ro Gunpo-si, gyeonggi-do, 435-831, Korea

白 錫 鉉 (백석현 ) Antenna Manager &Sales
TEL: 82-031-689-4366~7 FAX : 82-031-689-4368 Mobile : 010-2369-0786

E-mail : bbaacckk100@tellestar.com
http://www.tellestar.com