



MAGNETIC BRACKETS AND MOUNTING SYSTEMS PRODUCT SELECTION GUIDE

OUTDOOR WIRELESS SOLUTIONS



ANDREW® has entered an exclusive strategic collaboration with Estech Magnetics

Bringing neodymium magnetics
into a new generation
of industrial capability

Development of the
world's largest magnetic
bracketing fixture

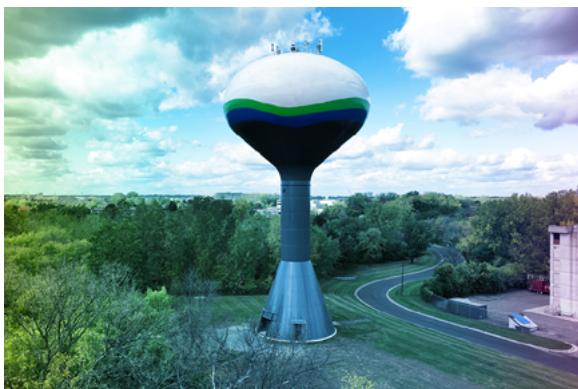


Estech Magnetics is widely recognized for its pioneering leadership in magnetic bracketing design and fabrication.

Together, ANDREW and Estech Magnetics are elevating the future of high strength magnetic bracketing technology, creating new possibilities for telecom and industrial customers worldwide.

DESIGNED FOR MORE THAN JUST TELECOM

The combined ANDREW® & Estech Magnetics product portfolio supports a wide range of industries and infrastructure applications, including:



WATER TANKS AND WATER TOWERS



TELECOMMUNICATIONS INFRASTRUCTURE



OIL AND GAS FACILITIES



WIND TURBINE SYSTEMS



ELECTRICAL GRID INSTALLATIONS



VENUE APPLICATIONS

INNOVATIVE TECHNOLOGIES

Faster installs and safer mounting options combined with structural integrity you can rely on

FLEX™

FLEX technology allows Estech's Talon brackets to conform to a range of convex, concave and flat surfaces.

Magnetic pads pivot to the tangency of the surface profile automatically during installation, supported by stainless steel "tendons," which allow the entire bracket body to be monolithically constructed, mitigating passive intermodulation (PIM) emissions. These magnetic brackets are a must-have for telecom installations on water towers and monopoles and avail themselves to be a stocked commodity that can be instantly available to accommodate a range of steel surface curvature and bend-angle fastening situations.



HOVERBOLT™

Hoverbolt technology features a series of nylon contact bolts as a scratch-resistant stand-off gap, temporarily reducing the magnetic force to the surface until the installer is ready for final placement.

Hoverbolts are also used to lift and release the magnetic systems with control. Placement, adjustment, and removal is now commanded and controlled with a ½" socket wrench even on the record-setting 70,000 lbf magnetic corral systems.

TALON™ SERIES MAGNETIC BRACKETS

Quickly and firmly attach cables, conduit, and miscellaneous equipment to a spectrum of steel curvatures and angles. The Talon FLEX magnetic bracket series integrates patent-pending pivoting magnetic pad surfaces that accommodate a wide range of steel surfaces without prior knowledge of the steel curvature or bend angle. This method allows the magnets to self-level and contacts the steel in an extremely efficient magnetic contact proximity.

Magnetic anchor points:

- Conduit clamps
- Telecom snap-in fasteners,
- A variety of imaginative applications

Applications:

- Water towers
- Wind turbines
- Monopoles



TALON-GROUND-4-05



TALON-GROUND-38-05



TALON-MINI-05

Ordering Information

PART NUMBER	DESCRIPTION	QTY	CABLE POSITIONS
TALON-GROUND-4-05	Flat base magnetic bracket for bonding of grounding system to steel structure, (3) 5/16" threaded bolt holes	Kit of 5	N/A - Grounding only
TALON-GROUND-38-05	Flat base magnetic bracket for bonding of grounding system to steel structure, (3) 3/8" threaded bolt holes	Kit of 5	N/A - Grounding only
TALON-MINI-05	Flat base (mini) magnetic antenna and RRU cable support bracket with 1 position/2 cables for stackable hangers (up to 2 per position)	Kit of 5	1
TALON1-FLX-SLM-05	FLEX base (slim) magnetic antenna and RRU cable support bracket with 1 position/2 cables for stackable hangers (up to 2 per position)	Kit of 5	1
TALON1-FLEX-05	FLEX base magnetic antenna and RRU cable support bracket with 1 position/2 cables for stackable hangers (up to 2 per position)	Kit of 5	1
TALON2-FLEX-05	FLEX base magnetic antenna and RRU cable support bracket with 2 position/4 cables for stackable hangers (up to 2 per position)	Kit of 5	2
TALON3-FLEX-05	FLEX base magnetic antenna and RRU cable support bracket with 3 position/6 cables for stackable hangers (up to 2 per position)	Kit of 5	3
TALON6-FLEX-05	FLEX base magnetic antenna and RRU cable support bracket with 6 position/12 cables for stackable hangers (up to 2 per position)	Kit of 5	6
TALON9-FLEX-05	FLEX base magnetic antenna and RRU cable support bracket with 9 position/18 cables for stackable hangers (up to 2 per position)	Kit of 5	9



TALON1-FLX-SLM-05



TALON1-FLEX-05

Note: Weight without mounting kit



TALON2-FLEX-05



TALON3-FLEX-05



TALON6-FLEX-05



TALON9-FLEX-05

SIDEWALLFLEX™ MAGNETIC ANTENNA MOUNTS

Utilized for fastening antennas or other pipe-mounted equipment on outdoor steel surfaces. These units can be used in conjunction with other SidewallFLEX™ magnetic mounts.

Applications:

- Monopoles
- Water towers
- Wind turbines

Ordering Information

PART NUMBER	DESCRIPTION	QTY
SIDEWALL72-FLEX	Sidewall bracket, MagFlex base antenna mounting bracket, (72) magnetic units, accommodates 3" to 4" OD round members	1



SIDEWALL72-FLEX

MONOFLEX™ SERIES MAGNETIC BRACKETS

Provides a method to quickly and firmly attach cables, conduit, and miscellaneous equipment to a wide spectrum of steel curvatures and angles, including faceted monopoles. Monolithic frame with FlexTechnology conforms and flexes to any diameter of steel surface, convex or concave, greater than 10".

Magnetic anchor points:

- Conduit clamps
- Telecom snap-in fasteners,
- A variety of imaginative applications

Applications:

- Water towers
- Wind turbines
- Faceted monopoles

Ordering Information

PART NUMBER	DESCRIPTION	QTY	CABLE POSITIONS
MON04-FLEX-05	FLEX base magnetic antenna and RRU cable support bracket with 4 position/8 cables for stackable hangers (up to 2 per position)	Kit of 5	4
MON06-FLEX-05	FLEX base magnetic antenna and RRU cable support bracket with 6 position/12 cables for stackable hangers (up to 2 per position)	Kit of 5	6



MON04-FLEX-05



MON06-FLEX-05

TALON™ OPGW MAGNETIC BRACKET

Magnetic anchor point to attach and manage Optical Ground Wire (OPGW) to energy transmission & distribution structures

Ordering Information

PART NUMBER	DESCRIPTION	QTY	CABLE POSITIONS
OPGW-FLT-05	Flat base magnetic Optical Ground Wire (OPGW) support bracket with 1 position/2 cables for stackable hangers (up to 2 per position)	Kit of 5	1



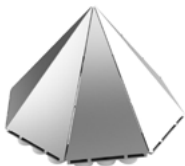
OPGW-FLT-05

XPERCH BIRD DETERRENTS

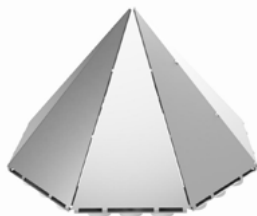
Birds perching and nesting near equipment leads to costly maintenance, service interruptions, and safety hazards for climbing crews. XPERCH bird deterrents have a conical shape designed to discourage bird activity and are made with durable Corten weathering steel.

Ordering Information

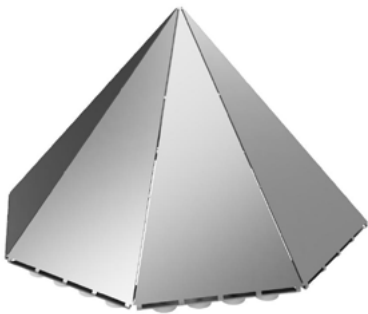
PART NUMBER	DESCRIPTION	QTY
XPERCH-12	Conical Bird Perching Deterrent with (24) NdFeB magnetic units, made with Corten weathering steel, 12" diameter	1
XPERCH-14	Conical Bird Perching Deterrent with (24) NdFeB magnetic units, made with Corten weathering steel, 14" diameter	1
XPERCH-20	Conical Bird Perching Deterrent with (32) NdFeB magnetic units, made with Corten weathering steel, 22" diameter	1



XPERCH- 12



XPERCH- 14



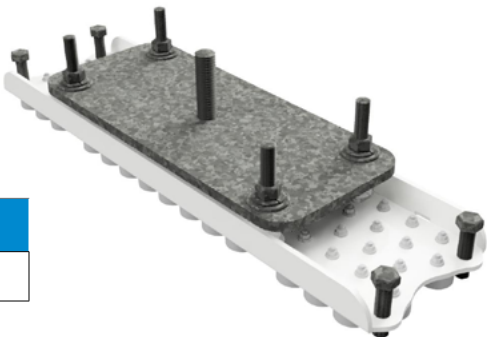
XPERCH- 20

MAGTRAY

MAGTRAY provides a flat mounting surface for a variety of applications with 78 NdFeB magnetic units for heavy duty loads.

Ordering Information

PART NUMBER	DESCRIPTION	QTY
MAG-TRAY-S-FLT	Magnetic Flat Bracket with (78) NdFeB magnetic units	1

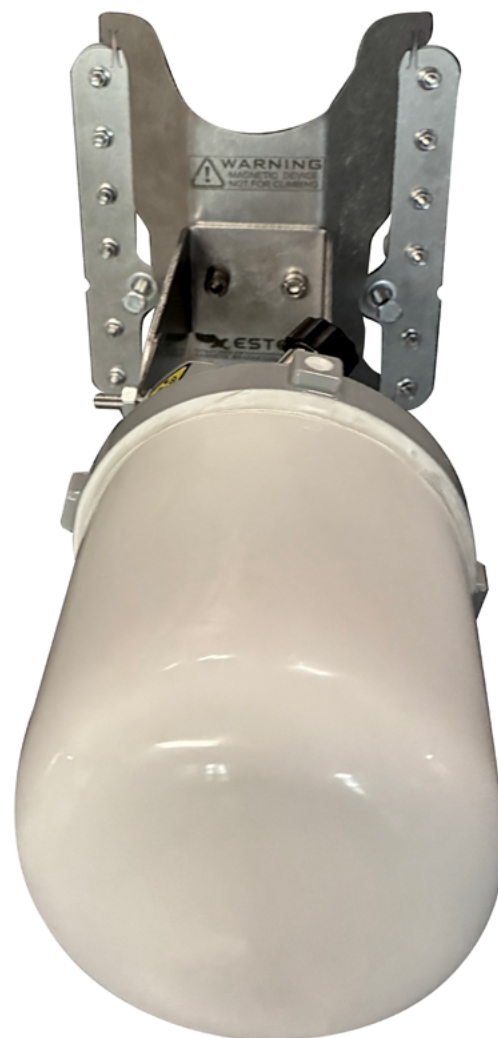
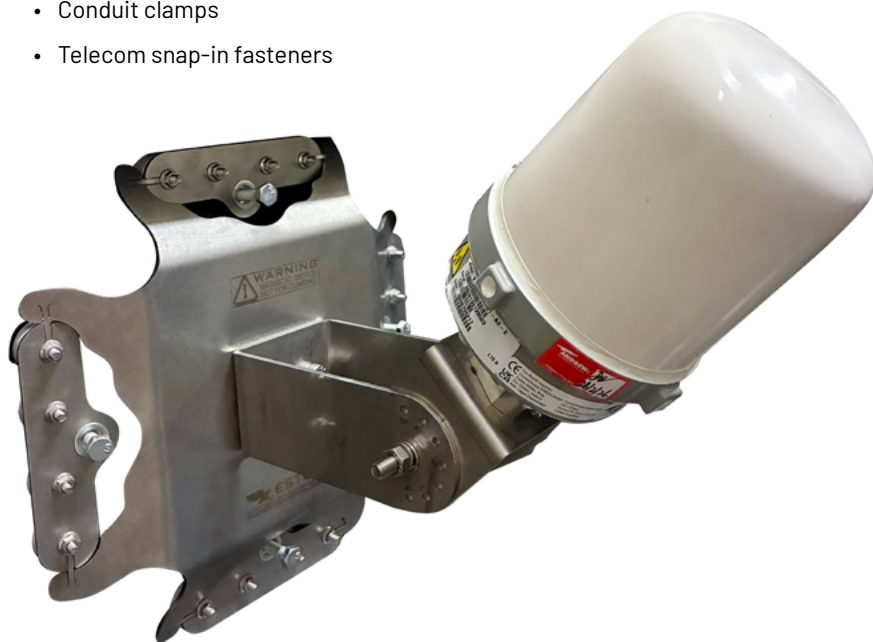


VENMAG™ MAGNETIC BRACKETS FOR VENUE APPLICATIONS

Quickly and firmly attach DAS antennas and other miscellaneous equipment to a spectrum of steel curvatures and angles in both indoor and outdoor applications. Requires no drilling and can be utilized in conjunction with other Estech brackets for cable routing.

Magnetic anchor points:

- DAS antennas
- Conduit clamps
- Telecom snap-in fasteners



Contact your ANDREW representative or email our team at steelproducts@andrew.com for more information on VenMAG solutions.

TRIPODMAX™ MAGNETIC ANTENNA BRACKETING

Industrial magnetic bracketing for antenna attachment.
Commonly paired with Estech Talon Series magnetic brackets for cable fastening.

- **Number of magnets:** One hundred and five (105)
- **Calculated vertical pull force:** 2,730 lbs.
- **Calculated sheer pull force:** 2,104 lbs.
- **Fixed mast:** 52" SCH40 2-3/8"
- **Designed for antennas up to 125 lbs.**

Applications:

- Antenna mounting
- Radio
- Telemetry
- Wisp/internet
- Solar
- Cellular



TRIPODMAX-FLEX

Ordering Information

PART NUMBER	DESCRIPTION	QTY
TRIPODMAX-FLEX	FLEX base antenna mounting tripod, (105) magnetic units, accommodates 3" to 4" OD round members	1

MAGPOD™ MODULAR MAGNETIC TRIPODS

Efficient and cost-effective tripod based mounting solution for single antenna or equipment (MW dish, sector antenna, FWA node, weather sensor, etc.). Design features a combination of Estech magnetic brackets & structural connectors and ANDREW structural tubing. Unique structural tubing interface allows for magnetic base to conform to various tank/structure geometries.

3 sizes based on loading criteria:

- MAGPOD-170-FLT
- MAGPOD-248-CRV
- MAGPOD-326-CRV



Ordering Information

PART NUMBER	DESCRIPTION	QTY
MAGPOD-170-FLT	Modular magnetic tripod assembly with (1) 3 1/2" OD antenna mast pipe and (2) 2 3/8" OD kicker pipes, uses (3) MAGFOOT-170-FLT as base.	1
MAGPOD-248-CRV	Modular magnetic tripod assembly with (1) 3 1/2" OD antenna mast pipe and (2) 2 3/8" OD kicker pipes, uses (3) MAGFOOT-248-CRV as base.	1
MAGPOD-326-CRV	Modular magnetic tripod assembly with (1) 3 1/2" OD antenna mast pipe and (2) 2 3/8" OD kicker pipes, uses (3) MAGFOOT-326-CRV as base.	1

CUSTOM MAGNETIC MOUNTING SYSTEMS

HALOMAG™ SYSTEM

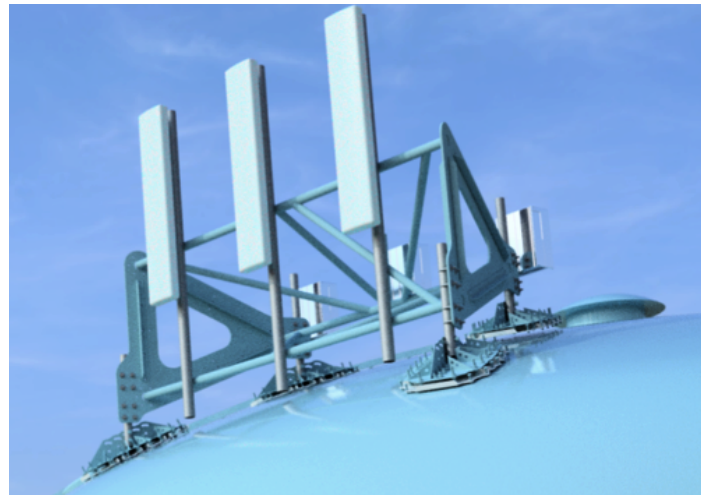
The HaloMAG system is a custom engineered magnetic structure that is used as a communications real estate fastening system for water tower roofs. HaloMAG is believed to be the world's largest magnetic bracketing system and currently range from 25' wide to 45' wide and feature approximately 1,500 to 5,800 high-strength rare-earth magnets each, depending on structural requirements.



HALOSECTOR™ MAGNETIC SECTOR MOUNT

The HaloSECTOR system is a custom engineered magnetic system that is used as a communications real estate fastening solution for water tower roofs. HaloSECTOR allows for precise azimuth alignment for RF objectives while maintaining radial compliance with tower roof for optimal load distribution. Sector faces are available straight or curved, from 11' to 15' width.

Contact your ANDREW representative
or email our team at steelproducts@andrew.com
for more information on the HaloMAG and
HaloSECTOR custom solutions.



MAGFOOT™ MAGNETIC SUPPORTS

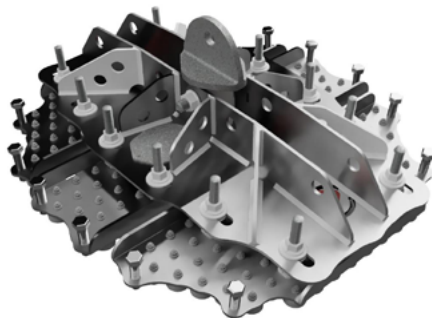
Magnetic support for wireless installations as part of other designs such as the HaloMAG™ or HaloSECTOR™ structure, or independently on installations as tie-back, kick-plate, or structure reinforcement

Applications:

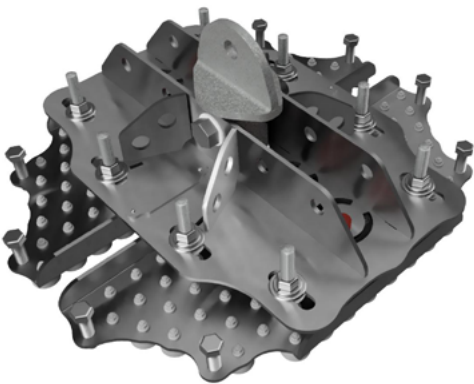
- Common steel surfaces
- Water towers

Ordering Information

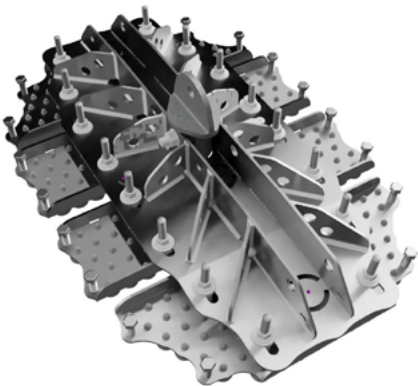
PART NUMBER	DESCRIPTION	QTY
MAGFOOT-170-FLT	Structural attachment bracket with (170) NdFeB magnetic units	1
MAGFOOT-248-CRV	Structural attachment bracket with (248) NdFeB magnetic units	1
MAGFOOT-326-CRV	Structural attachment bracket with (326) NdFeB magnetic units	1



MAGFOOT-248-CRV



MAGFOOT-170-FLT



MAGFOOT-326-CRV

MAGFOOT™ ACCESSORIES

Ordering Information

PART NUMBER	DESCRIPTION	QTY
AGL-IRON-BLADE-PVT	Pivoting interface for angle structural members to connect to MagFOOT	1
KICKBLADE-90R-V1	Pivoting interface for round structural members to connect to MagFOOT	1
U-BLADE-MF-2T3	Structural plate for connecting 2" to 3" OD round members to MagFOOT	1
U-BLADE-MF-3T4	Structural plate for connecting 3" to 4" OD round members to MagFOOT	1
U-MF-KB-DBOARD-2T3	Rotating connecting panel, joins 2" to 3" OD round members to MagFOOT with pin joint	1
U-MF-KB-DBOARD-3T4	Rotating connecting panel, joins 3" to 4" OD round members to MagFOOT with pin joint	1
U-PANEL-MF-PRP-2T3	Connecting panel, joins 2" to 3" OD round members to MagFOOT	1
U-PANEL-MF-PRP-3T4	Connecting panel, joins 3" to 4" OD round members to MagFOOT	1



AGL-IRON-BLADE-PVT



KICKBLADE-90R-V1



U-BLADE-MF-2T3



U-MF-KB-DBOARD-2T3



U-PANEL-MF-PRP-2T3

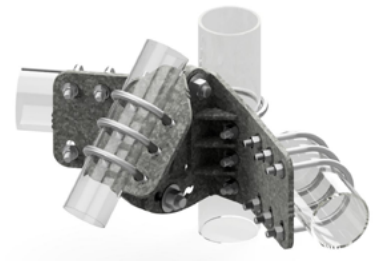
OTHER MISCELLANEOUS ACCESSORIES

Ordering Information

PART NUMBER	DESCRIPTION	QTY
AA-K2T3-V3T4-X3T4	Crossover Vertex Bracket with Adjustable KickerAngle, connecting 3" to 4" OD round vertical member to (2) 3" to 4" OD round horizontal members at 60 degrees, and central kicker with 2" to 3" OD round member with 30-60 degrees of adjustment	1
XA120-V3T4-X3T4	Crossover Vertex Bracket, connecting 3" to 4" OD round vertical member to (2) 3" to 4" OD round horizontal members at 60 degrees	1
K-LOCK-2375-OD-V1	Tubular connector, for 2 7/8" OD round members, with pin joint for structural interface	1
U-ANG-ADP-3R6-2T3	Adjustable angle tubing connection, joins (2) 2" to 3" OD round members between 30 and 60 degrees	1
U-ANG-ADP-3R6-3T4	Adjustable angle tubing connection, joins (2) 3" to 4" OD round members between 30 and 60 degrees	1
U-ANG-ADP-6R12-2T3	Adjustable angle tubing connection, joins (2) 2" to 3" OD round members between 60 and 120 degrees	1
U-ANG-ADP-6R12-3T4	Adjustable angle tubing connection, joins (2) 3" to 4" OD round members between 60 and 120 degrees	1
U-BLADE-PLL-2T3-60	Parallel structural plate for connecting 2" to 3" OD round member to up to (3) intersecting members, 60 degree total sweep	1
U-BLADE-PLL-2T3-90	Parallel structural plate for connecting 2" to 3" OD round member to up to (3) intersecting members, 90 degree total sweep	1
U-BLADE-PLL-3T4-60	Parallel structural plate for connecting 3" to 4" OD round member to up to (3) intersecting members, 60 degree total sweep	1
U-BLADE-PLL-3T4-90	Parallel structural plate for connecting 3" to 4" OD round member to up to (3) intersecting members, 90 degree total sweep	1
U-BLADE-PRP-2T3-60	Perpendicular structural plate for connecting 2" to 3" OD round member to up to (3) intersecting members, 60 degree total sweep	1
U-BLADE-PRP-2T3-90	Perpendicular structural plate for connecting 2" to 3" OD round member to up to (3) intersecting members, 90 degree total sweep	1
U-BLADE-PRP-3T4-60	Perpendicular structural plate for connecting 3" to 4" OD round member to up to (3) intersecting members, 60 degree total sweep	1
U-BLADE-PRP-3T4-90	Perpendicular structural plate for connecting 3" to 4" OD round member to up to (3) intersecting members, 90 degree total sweep	1
U-X-PLATE-2T3	Crossover plate, joins 2" to 3" OD round members	1
U-X-PLATE-3T4	Crossover plate, joins 3" to 4" OD round members	1



K-LOCK-2375-OD-V1



AA-K2T3-V3T4-X3T4



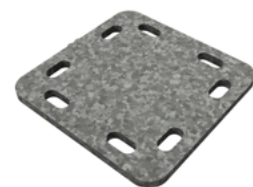
U-ANG-ADP-6R12-2T3



U-BLADE-PLL-3T4-60



U-BLADE-PLL-2T3-60



U-X-PLATE-2T3

Since 1937, ANDREW, an Amphenol company, has driven the evolution of wireless technology. Trusted by mobile network operators and enterprises globally, we work closely with our customers to deliver innovative solutions that enhance connectivity experiences both outdoors and indoors. Our dedicated global team is committed to advancing the industry, fueled by the vision that a better-connected future is possible.



ANDREW.COM

Visit our website or contact your local ANDREW representative for more information.

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