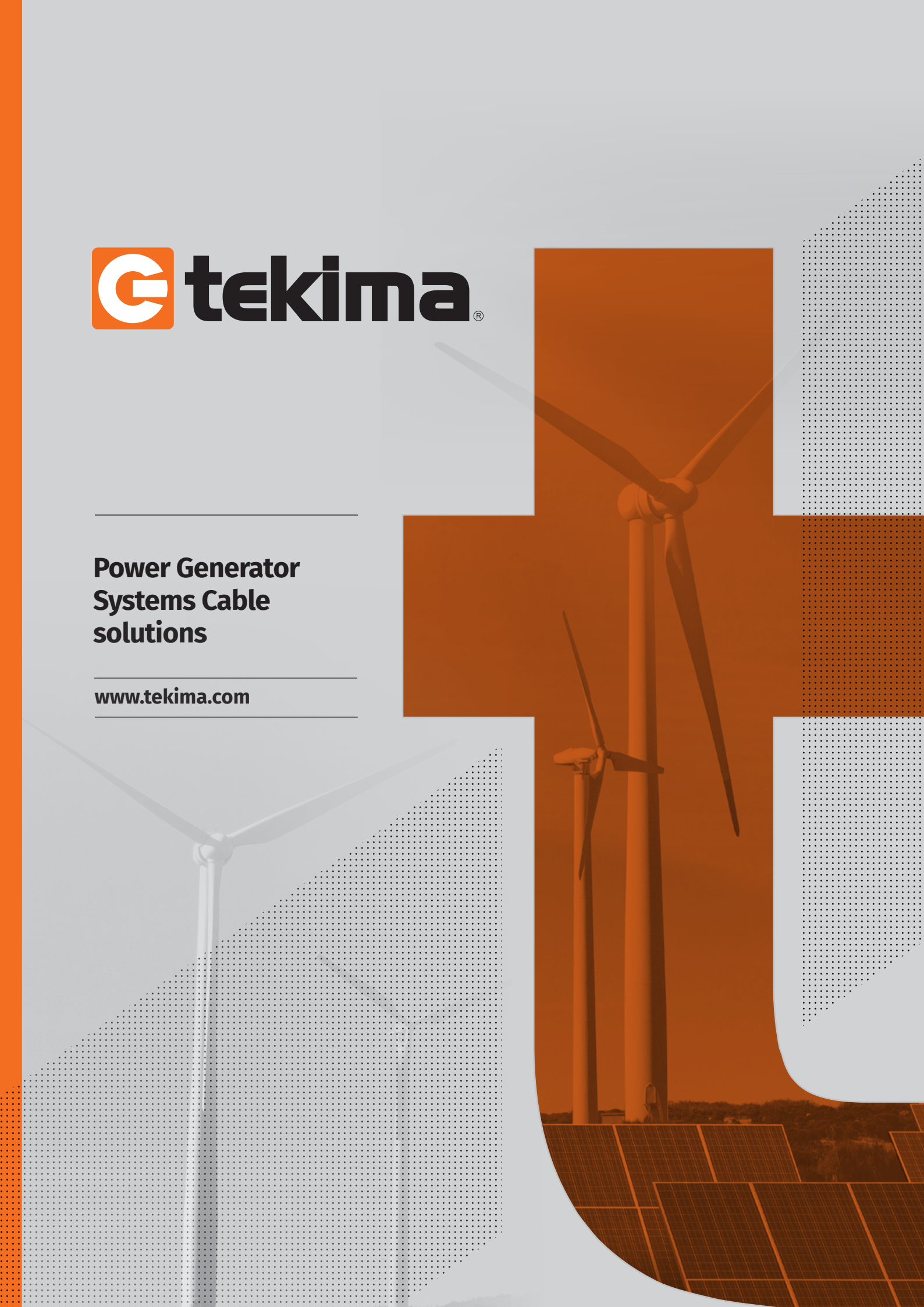




**Power Generator
Systems Cable
solutions**

www.tekima.com



Wind Turbine Towers



NACELLE

The nacelle is the main housing on a wind turbine, containing the generator, gearbox, yaw system, and control systems. It converts wind energy from the rotor into electricity, with cabling that carries power down the tower and sensors for performance monitoring.

The main cable features used in the nacelle are:

- Thermoplastic and Silicone jacket material
- High Flexibility
- EMI Shielding
- Temperature, Fire and UV Resistant
- Oil and Chemical Resistance



BASE

The tower base anchors the wind turbine to the ground, providing stability and support. It houses electrical equipment, such as transformers and switchgear, and serves as the entry point for cables from the tower, connecting the turbine to the grid or storage systems.

The main cable features used in the tower base are:

- High Voltage Capacity
- Robust Insulation Flame and Oil Resistant
- EMI Shielding
- Temperature Resistance

TOWER

The tower of a wind turbine supports the nacelle and rotor at high elevations to capture stronger winds. It houses internal ladders, elevators and power cables running from the nacelle to the base for energy transmission.

The main cable features used in the tower are:

- High Durability
- Fire and UV Resistant
- Flexibility for Vertical Runs
- Torsion resistance for Loops
- Low Voltage

Photovoltaics Systems

LINE 1

This system supplies power and control signals to solar trackers, enabling panel movement for optimal energy production.

The main cable features used are:

- Hybrid Power & Control Design
- Reduced Installation Time
- Mechanical Flexibility
- Simplified Cable Management



LINE 2

This connection links PV modules to the inverter, transmitting DC power generated by the panels under outdoor conditions.

The main cable features used are:

- UV Resistance
- Weather Resistance
- Tinned Copper Conductors
- Long-term Outdoor Durability



LINE 3

This line transfers converted AC power from the inverter to the power center and transformer for distribution or grid connection.

The main cable features used are:

- High Current Carrying Capacity
- XLPE Insulation
- Low Voltage Drop
- Optimized Conductor Sizing (Cu or Al)

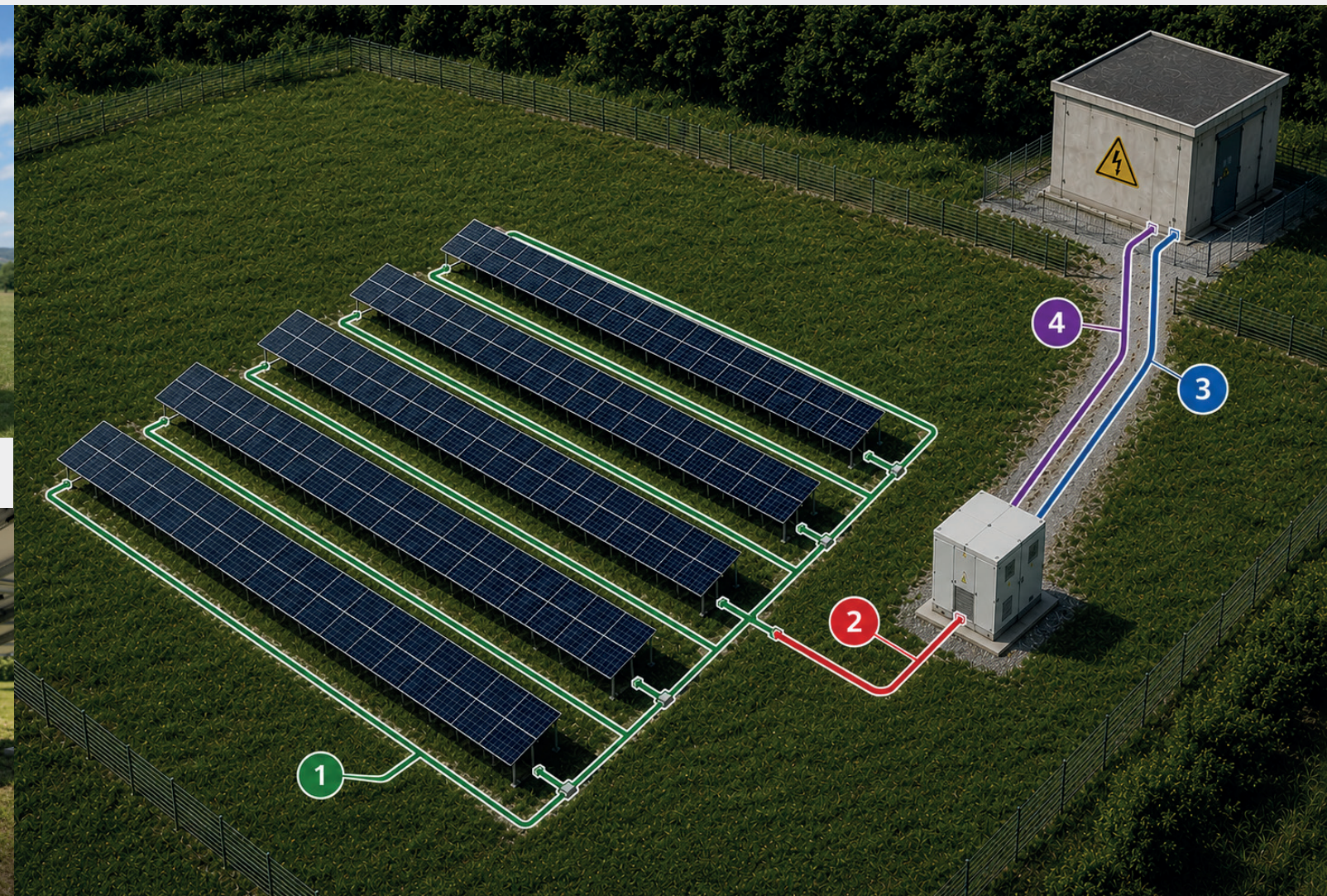


LINE 4

This system enables data transmission for monitoring, control, and performance analysis of the PV plant.

The main cable features used are:

- EMI Shielding
- Stable Data Transmission
- Low Signal Attenuation
- Industrial Communication Reliability



Combinet Heat & Power (CHP)

COMMUNICATION SYSTEM

The communication system enables data exchange, monitoring, and control of the CHP unit, supporting real-time operation and diagnostics.

The main cable features used are:

- Shielded cables or Fiber Optics
- EMI Protection
- High Data Reliability
- Flame Retardant and Low Smoke
- Flexible and Durable

POWER DISTRIBUTION SYSTEM

The power distribution system delivers and manages electricity from the CHP unit to loads or the grid, ensuring safe and efficient operation through switchgear and protection systems.

The main cable features used are:

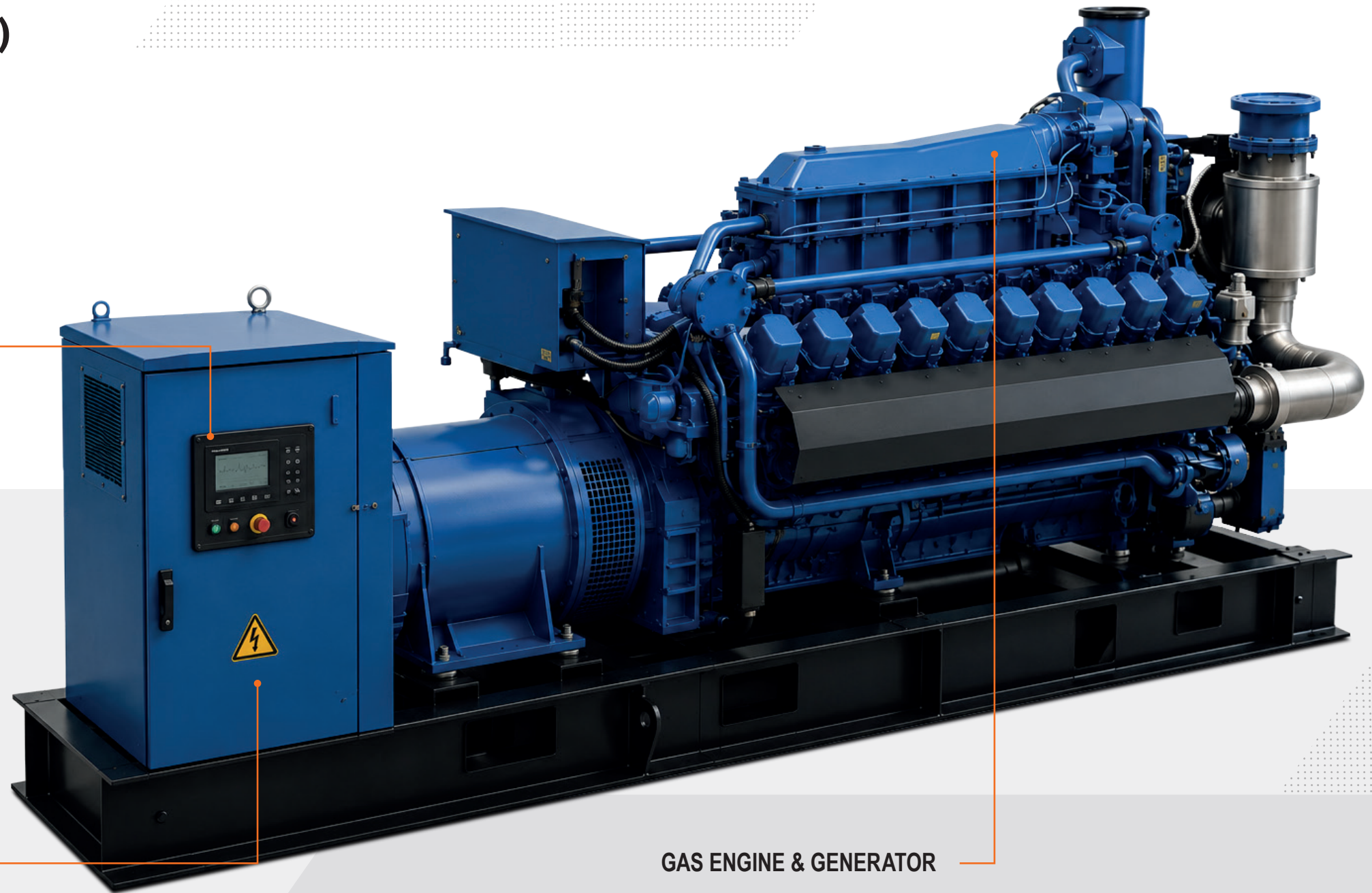
- Thermoplastic jacket material
- High Current Capacity
- Fire Resistant and Flame Retardant
- UV and Weather Resistant
- Mechanical Strength

GAS ENGINE & GENERATOR

The gas engine and generator are the core of a CHP system, converting fuel into electricity while recovering heat for thermal use. They include control systems, cooling circuits, and monitoring sensors.

The main cable features used are:

- Thermoplastic and Rubber jacket material
- High Flexibility and Vibration Resistance
- High Temperature Resistance
- Oil and Chemical Resistance
- EMI Shielding



SERIES
970

High-Temperature Single-Core Cable with Enhanced Current Carrying Capacity

Cable type	Silicone insulated single-core cables Style 3644
Application	Fixed application, unshielded
Identification	Hard service cord
Size	14 AWG+550 kcmil (2,5+300 mm ²)
Conductor	Tinned copper flexible strand, UL 758
Insulation	Silicone halogen-free according to UL 758
Shield	Tinned copper braid and/or aluminum/polyester depending on models.
Jacket	PVC compound, oil-resistant, RAL 7001 gray or black color. Metric marking.
Temperature range	-50°C, +180°C (IEC), +150°C/+200°C (UL)
Voltage rating	600/1000 V (IEC), 1000 V (UL)
Bending radius	5 x cable outer diameter
Standards of construction	UL 758 Flame res.: IEC 60332-1-2, UL/ CSA FT2 Halogen-free: IEC 60754-1 UV res.: ISO 4892-2 Other: ISO 60228, IEC 60754-2, CSA AWM I A, cURus AWM Style 3644



SERIES
1010
1010S

High flexible XLPE Single-Core Cable 90° rating

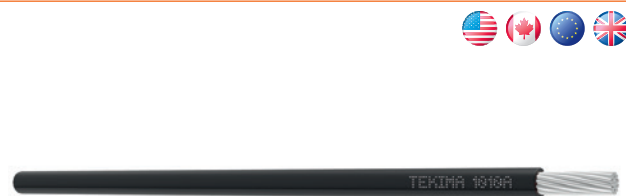
Cable type	Single core cable type XHHW-2
Application	Fixed application, unshielded or shielded
Size	16 AWG+550 kcmil (1,5+300 mm ²)
Conductor	Extra-flexible bare copper strand, class 5
Insulation	XLPE
Shield	Tinned copper braid, nom. coverage 85%
Jacket	PVC compound. Metric. marking.
Temperature range	+90°C -40°C (fixed); -15°C (not fixed)
Voltage rating	600/1000 V (IEC), 600 V (UL)
Bending radius	4 x cable outer diameter (13 x cable outer diameter for non-cyclical mobile uses)
Standards of construction	UL 44, Nec Art. 310 Oil res.: UL 83, UL 1063 Flame res.: Test B acc. to DIN 0472 part 804, UL FT1 Other: 2014/35/EU (Low Voltage Directive)
Standards of use	ANSI/NFPA 70 (NEC), ANSI/NFPA 79



SERIES
1010A

High flexible aluminum XLPE Single-Core Cable 90° rating

Cable type	Single core cable type XHHW-2
Application	Fixed application, unshielded
Size	16 AWG+550 kcmil (1,5+300 mm ²)
Conductor	Flexible aluminum strand, comparable to class 5
Insulation	XLPE
Temperature range	-40°C, +90°C
Voltage rating	1000 V (AWM), 600 V (XHHW-2, RW90), 600/1000V (IEC)
Bending radius	4 x cable outer diameter
Standards of construction	UL 44, Nec Art. 310, CSA C22.2 N.38, CSA C22.1 Oil res.: UL 83, UL 1063 Flame res.: Test B acc. to DIN 0472 part 804, UL FT1 Other: 2014/35/EU (Low Voltage Directive)
Standards of use	ANSI/NFPA 70 (NEC), ANSI/NFPA 79, CSA C22.1



SERIES
105
105S

High flexible multi-core cable oil-resistant and UV-resistant

Cable type	"Flextek-B" oil-resistant and UV-resistant cables
Application	Fixed application, unshielded or shielded
Size / No.cond	18 AWG+450 kcmil (0,5+240 mm ²) / 2+61
Conductor	Copper strand, class 5 - CEI EN 60228
Insulation	PVC compound
Conductor distinction	Black numbered + yellow/green (beginning from 3 conductors)
Shield	Tinned copper braid, nom. coverage 85%
Jacket	Oil and flame-resistant PVC compound, RAL 7001 gray color or black. Metric marking.
Temperature range	-40°C, +80°C (fixed); -5°C, +70°C (not fixed)
Voltage rating	600/1000 V
Bending radius	6 x cable outer diameter (fixed) 20 x cable outer diameter (not fixed)
Standards of construction	Flame res.: IEC 60332-1-2, DIN VDE 0472 part 804 UV res.: UNI EN ISO 4892-3 (gray), UNI EN ISO 4892-2 (black) Other: CEI EN 60228, VDE 0295, CEI 20-11, VDE 0207, 2014/35/EU (Low Voltage Directive), UE 305/2011, EN 50575 (CPR, Class Eca)



SERIES
380
380S

High-Temperature Silicone multi-core cable – 180°C Rating

Fixed application, unshielded or shielded

Cable type	High temperature multi-norm silicone cables
Application	Fixed application, unshielded or shielded
Size / No.cond	20 AWG+8kcmil (0,5+6 mm ²) / 2+25
Conductor	Flexible copper strand, class 5
Insulation	Silicone compound
Conductor distinction	Colored according to HD 308 S2 and black numbered + yellow/green (beginning from 6 conductors)
Shield	Tinned copper braid
Jacket	Silicone compound, black or orange (on request) color. Metric marking.
Temperature range	-60°C; +150°C (UL/CSA); +180°C (IEC)
Voltage rating	600 V (UL/CSA); 450/750 V (IEC)
Test voltage	2000 V
Bending radius	5 x cable outer diameter (fixed) 12 x cable outer diameter (not fixed)
Standards of construction	Flame res.: IEC 60332-1-2, UL/CSA FT1 Other: CEI EN 60228, VDE 0295, UL 1581, UL 758, CSA AWM II A/B, cURus AWM Style 4476, 2014/35/EC (Low Voltage Directive)



Wind Turbine - Solar - Power & Control Tray Cable Direct Burial, Sun & Oil Resistant

TEKIMA 8110 "TRAY CABLE-ER-HL"

TEKIMA 811B "TRAY CABLE-ER-HL"

TEKIMA 8110S "TRAY CABLE-ER-HL"

TEKIMA 811BS "TRAY CABLE-ER-HL"

TEKIMA 8110S "TRAY CABLE INSTRUMENTATION -ER-HL"

TEKIMA 8110S "TRAY CABLE INSTRUMENTATION -ER-HL"

ECOLAB

RoHS CE UK CA

Flexible Power multi-core cable – Oil & Weather Resistant

Two Tekima 8612S "TYPE 500W" cables are shown. The top cable has a black jacket and a braided shield. The bottom cable has a black jacket and a solid shield. Both cables are marked with "TEKIMA 8612S 'TYPE 500W'". The cables are shown with their outer jackets removed, revealing the internal conductors (red, green, white, and black) and the braided shield. The UL and SP logos are visible in the bottom right corner.

Portable Power single or multi-core cable for Hazardous Locations

Two black Tekima 88139 "TYPE III" cables are shown horizontally. The top cable has orange, white, and grey conductors exposed. The bottom cable has green, orange, white, and grey conductors exposed. Both cables have "TEKIMA 88139 'TYPE III'" printed on them.

Armoured multi-core cable – Oil Resistant & Heavy Duty

High flexible Multi-Core Cable Oil resistant

TEKIMA 500

TEKIMA 500

TEKIMA 500

TEKIMA 600S

TEKIMA 600S

TEKIMA 600S

UKCA RoHS CE

SERIES
DATA/
BUS

Bus and data transmission cables

- High-performance cables engineered for stable communication and demanding environments.
- Cables for Ethernet, RS485 bus and data communication systems
- Solutions for fixed and dynamic applications
- High resistance to oil, abrasion and environmental stress
- Shielded constructions for reliable signal integrity
- UL/CSA compliant solutions for North American markets

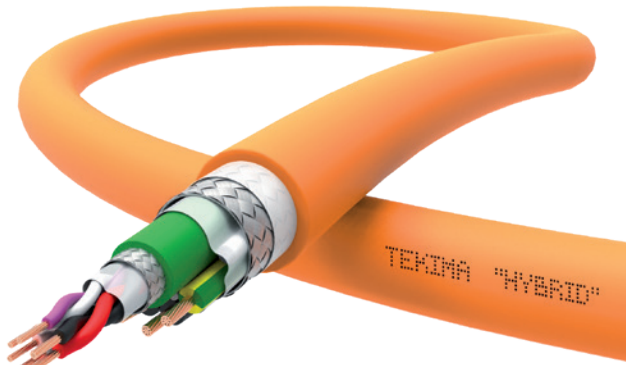


SERIES
HYBRID

Multi-conductor “Hybrid” cables

- The use of digital technologies in motors' control for industrial automation is undergoing a decisive acceleration.
- The integration of the two essential components (power and control) necessary for the operation of a latest generation electric motor, involves the aggregation in a single cable of the power supply conductors and those necessary for digital communications.
- Combining very different electrical quantities and extremely reliable electrical parameters in a single product represents today the new goal in the construction of hybrid cables.
- We create your own cables. Customizable in:

- > Type of **communication**
- > **Certifications**
- > **Installation**, fixed / mobile installation
- > **Operating conditions**
- > **Dimensions**
- > **Colors**



SERIES
CONTEK

“Contek” connectorized cables

- Communication and integrated power now in a single pre-connectorized cable, “Contek”.
- Receive the certified, pre-connectorised product, already tested and ready to be installed as per your specifications
- > Connectors compatible with the most used motors and drives.
- > Custom configurations based on your application.
- > Certified quality of all components.
- > 100% tested.
- > Fast delivery.
- > Guaranteed compatibility: Siemens, B&R, Control Techniques, Sew Eurodrive, Schneider Electric, Beckoff, Bosch Rexroth, Rockwell Automation



Wiring products



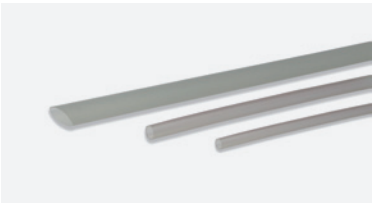
Cable
ties



Heat shrinkable
tubings



Heat shrinkable tubings
with adhesive



High-temperature heat
shrinkable tubings

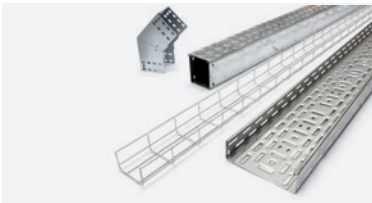


Heat shrinkable
moulded shapes



Non-shrinkable
tubings

Field-installed components



Cable tray
systems



Rigid metal tubings
and conduits



Reinforced
conduits



Corrugated
conduits

[illegible][illegible]



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