





4.1 Electrical and Technical Tapes

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Vinyl Electrical Tapes – Commercial Grade Vinyl Electrical Tape

HelaTape Flex 15

Primary electrical insulation for all wire and cable splices up to 1 kV.
Protective jacketing for low, medium and high voltage splices.
Wrapping of wire harnesses and cables.
Used for indoor and outdoor applications.

Features and benefits

- Vinyl electrical tape in many different colours
- Used for insulation, protection, fixing, maintenance, colour coding and more
- Good resistance to abrasion, sunlight, moisture, chemicals and varying weather conditions
- Highly flexible with outstanding adhesion performance
- Harnessing of wires and cables
- Suitable for mechanical and electrical applications up to 1 kV
- VDE approved according to IEC 60454-3-1-6/F-PVCP/90
- Flame retardant according to IEC 60454-2



HelaTape Flex 15 – Vinyl Electrical Tapes.

MATERIAL	Polyvinylchloride (PVC)
Dielectric Strength	45 kV/mm
Adhesion to Steel	2.2 N/10 mm
Adhesion to Backing	2.0 N/10 mm
Elongation at break (min.)	200 %
Breaking Strength	28 N/10 mm
Operating Temperature	-10 °C to +90 °C

RoHS

PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-FLEX15-15x10-PVC-CL	0.15	15.0	10.0 m	710-00147
HTAPE-FLEX15-15x10-PVC-OG	0.15	15.0	10.0 m	710-00110
HTAPE-FLEX15-15x10-PVC-VT	0.15	15.0	10.0 m	710-00109
HTAPE-FLEX15-15x10-PVC-GY	0.15	15.0	10.0 m	710-00108
HTAPE-FLEX15-15x10-PVC-BN	0.15	15.0	10.0 m	710-00107
HTAPE-FLEX15-15x10-PVC-GNYE	0.15	15.0	10.0 m	710-00106
HTAPE-FLEX15-15x10-PVC-WH	0.15	15.0	10.0 m	710-00105
HTAPE-FLEX15-15x10-PVC-BK	0.15	15.0	10.0 m	710-00104
HTAPE-FLEX15-15x10-PVC-GN	0.15	15.0	10.0 m	710-00103
HTAPE-FLEX15-15x10-PVC-YE	0.15	15.0	10.0 m	710-00102
HTAPE-FLEX15-15x10-PVC-RD	0.15	15.0	10.0 m	710-00101
HTAPE-FLEX15-15x10-PVC-BU	0.15	15.0	10.0 m	710-00100

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Conductive Tapes – Electrical Semi-Conducting Tape

HelaTape Shield 310

Features and benefits

- Self-amalgamating conducting tape made from ethylene propylene rubber
- Provides good conducting properties
- Prevents partial discharges
- Moisture and UV-resistant and easy to apply
- Guidance and/or finishing of the semiconductive layer in case of repairs and connections of medium to high voltage cables.



HelaTape Shield 310 self-amalgamating conducting tape for shielding high voltage splices and terminations.

MATERIAL	Ethylene Propylene Rubber (EPR)
Operating Temperature	-40 °C to +90 °C
Intermittent Operating Temperature	+130 °C
Water Absorption	0.02 %
Adhesion to Steel	2.2 N/10 mm
Elongation at break (min.)	600 %
Volume Resistance	870 Ω cm
Adhesion to Backing	2 N/10 mm
Breaking Strength	2 N/10 mm



PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-SHIELD310-EPR-BK	0.76	19.0	4.6 m	711-10000
	0.76	38.0	9.1 m	711-10001

All dimensions in mm. Subject to technical changes.



Self-amalgamating Tapes – Low Voltage Rubber Tape

HelaTape Power 600

HellermannTyton offers a wide range of products for bundling, insulating, sealing and labeling cables and wires. PVC insulation tapes for low-voltage applications are available in various colors and dimensions. Self-welding, rubber-based tapes are ideal for insulating and sealing cables and connections from low to high and extra-high voltage ranges. HelaTape Tex fabric tapes are versatile and easy to write on.

Features and benefits

- Self-amalgamating low voltage rubber tape
- Primary insulation at not more than 1 kV
- Easily suitable to irregular shapes and surfaces
- Compatible with all extruded dielectric cable insulations
- Weather resistant and flame retardant according to UL 510
- Excellent for repairing e.g. damaged cable sheaths against moisture ingress, where finishing with some layers of HelaTape Flex will do the mechanical protection.



HelaTape Power 600 is a self-amalgamating low voltage rubber tape.

MATERIAL	Isobutene-Isoprene-Rubber (butyl rubber) (IIR)
Operating Temperature	-40 °C to +80 °C
Intermittent Operating Temperature	+95 °C
Tensile Strength	2 N/mm ²
Elongation at break (min.)	300 %
Dielectric Strength	14 kV/mm

HF ✓

RoHS ✓

PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-POWER600-19x6.7-IIR-BK	0.76	19.0	6.7 m	711-10200
HTAPE-POWER600-38x6.7-IIR-BK	0.76	38.0	6.7 m	711-10201

All dimensions in mm. Subject to technical changes.



Self-amalgamating Tapes – Electrical Insulation Mastic

HelaTape Power 650

HellermannTyton offers a wide range of products for bundling, insulating, sealing and labeling cables and wires. PVC insulation tapes for low-voltage applications are available in various colors and dimensions. Self-welding, rubber-based tapes are ideal for insulating and sealing cables and connections from low to high and extra-high voltage ranges. HelaTape Tex fabric tapes are versatile and easy to write on.

Features and benefits

- Self-amalgamating insulation compound for sealing and padding cable jackets up to 1 kV
- Easily moulded by hand to conform to irregular shapes even during low temperatures
- Permanently elastic and resistant to ageing
- Perfect adhesion to metal and all types of cable insulations and jackets
- Provides excellent moisture sealing
- Resistant to salt water, ozone, oil and corrosive chemicals
- Excellent for repairing e.g. damaged cable sheaths against moisture ingress, where finishing with some layers of HelaTape Flex will do the mechanical protection



HelaTape Power self-amalgamating mastic is highly flexible.

MATERIAL	Isobutene-Isoprene-Rubber (butyl rubber) (IIR)
Operating Temperature	-10 °C to +105 °C
Intermittent Operating Temperature	+130 °C
Water Absorption	0.1 %
Volume Resistance	$10^{15} \Omega \text{ cm}$
Dielectric Strength	19.7 kV/mm



PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-POWER650-IIR-BK	3.20	38.0	1.5 m	711-10300

All dimensions in mm. Subject to technical changes.



Self-amalgamating Tapes – Rubber Mastic Tape

HelaTape Power 660 RM

HellermannTyton offers a wide range of products for bundling, insulating, sealing and labeling cables and wires. PVC insulation tapes for low-voltage applications are available in various colors and dimensions. Self-welding, rubber-based tapes are ideal for insulating and sealing cables and connections from low to high and extra-high voltage ranges. HelaTape Tex fabric tapes are versatile and easy to write on.

Features and benefits

- Self-amalgamating rubber mastic tape
- EPR backing coated with a tacky, temperature-stable mastic adhesive
- Designed for electrical insulating and moisture sealing applications
- Can be used as cable jacket replacement
- Perfect adhesion and sealing for copper and aluminium wires
- Easily suitable to irregular shapes and surfaces
- Compatible with all extruded cable insulations
- UV, moisture, corrosion and chemical resistant
- Primary electrical insulation for bus bar connections rated up to 35 kV
- Excellent for repairing e.g. damaged cable sheaths against moisture ingress, where finishing with some layers of Helatape Flex will do the mechanical protection



HelaTape Power 660 is a very flexible rubber mastic sealing and padding tape.

MATERIAL	Ethylene Propylene Rubber (EPR), Isobutene-Isoprene-Rubber (butyl rubber) (IIR)
Operating Temperature	-30 °C to +90 °C
Intermittent Operating Temperature	+130 °C
Water Absorption	0.1 %
Tensile Strength	1.5 N/mm ²
Dielectric Strength	19.7 kV/mm

HF ✓

RoHS ✓

PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-POWER 660-RM-EPR/IIR-BK	1.65	50.8	3.0 m	711-00307

All dimensions in mm. Subject to technical changes.



Self-amalgamating Tapes – Vinyl Mastic Tape

HelaTape Power 670 VM

HellermannTyton offers a wide range of products for bundling, insulating, sealing and labeling cables and wires. PVC insulation tapes for low-voltage applications are available in various colors and dimensions. Self-welding, rubber-based tapes are ideal for insulating and sealing cables and connections from low to high and extra-high voltage ranges. HelaTape Tex fabric tapes are versatile and easy to write on.

Features and benefits

- Easy to apply vinyl mastic tape
- Self-adhesive application - without stretching
- Mastic layer is very sticky and provides excellent moisture sealing
- Vinyl top layer provides additional protection
- Performs continuously. Even at low temperatures
- Primary insulation up to 1 kV
- Applicable to all extruded cable insulations
- UV and weather resistant



HelaTape Power 670 provides additional vinyl film protection to the mastic compound.

MATERIAL	Polyvinylchloride (PVC), Isobutene-Isoprene-Rubber (butyl rubber) (IIR)
Operating Temperature	-30 °C to +80 °C
Intermittent Operating Temperature	+95 °C
Water Absorption	0.9 %
Tensile Strength	16 N/mm ²
Elongation at break (min.)	200 %
Volume Resistance	10 ¹² Ω cm
Dielectric Strength	19.7 kV/mm

HF ✓

RoHS ✓

PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-POWER 670-VM-PVC/IIR-BK	1.20	100.0	3.0 m	711-00304

All dimensions in mm. Subject to technical changes.



Self-amalgamating Tapes – Silicone Rubber Tape

HelaTape Power 800

HelaTape Power 800 is made from a special silicone and is Self-amalgamating Tapes. It is very suitable for sealing (waterproof and airtight), insulating and repairing. HelaTape Power 800 is not a conventional adhesive tape. It does not stick to other surfaces, but welds itself by wrapping it multiple times in an overlapping manner.

Features and benefits

- Self-amalgamating and self-cleaning, chemically cross-linked silicone rubber tape
- Triangular cross-section with centre line for precise half-overlapping
- Resistant to creepage and surface erosion
- Fuses into solid mass after application
- Weather, UV and oil resistant
- Recommended use for high temperature silicone insulated cables and outdoor machinery and transformers



HelaTape Power 800 is a silicone rubber tape with triangular cross-section.

MATERIAL	Silicone (SI)
Operating Temperature	-54 °C to +180 °C
Intermittent Operating Temperature	+260 °C
Tensile Strength	7.0 N/mm ²
Elongation at break (min.)	400 %
Volume Resistance	10 ¹⁴ Ω cm
Dielectric Strength	23.5 kV/mm



PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-POWER800-SI-GY	0.51	25.0	9.1 m	711-10400

All dimensions in mm. Subject to technical changes.



Self-amalgamating Tapes – High Voltage Rubber Tape

HelaTape Power 810

HellermannTyton offers a wide range of products for bundling, insulating, sealing and labeling cables and wires. PVC insulation tapes for low-voltage applications are available in various colors and dimensions. Self-welding, rubber-based tapes are ideal for insulating and sealing cables and connections from low to high and extra-high voltage ranges. HelaTape Tex fabric tapes are versatile and easy to write on.

Features and benefits

- Self-amalgamating tape for insulating and jacketing splices up to 69 kV
- Halogen-free with outstanding corona, ozone and UV-resistance
- Ideal for sealing of terminations, electrical connections and cable jacket repair
- Void-free, electrically stable layering
- Protects e.g. bus bars against corrosion and contact
- Excellent moisture, corrosion and chemical resistance
- Compatible with all extruded cable insulations



HelaTape Power 810 for primary insulation up to 69 kV.

MATERIAL	Ethylene Propylene Rubber (EPR)
Operating Temperature	+90 °C
Intermittent Operating Temperature	+130 °C
Water Absorption	0.06 %
Tensile Strength	2.4 N/mm ²
Elongation at break (min.)	750 %
Volume Resistance	10 ¹⁶ Ω cm
Dielectric Strength	30 kV/mm

HF ✓

RoHS ✓

PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-POWER810-EPR-BK	0.76	19.0	9.1 m	711-10401

All dimensions in mm. Subject to technical changes.



Self-amalgamating Tapes – High Voltage Rubber Tape (Linerless)

HelaTape Power 820

HellermannTyton offers a wide range of products for bundling, insulating, sealing and labeling cables and wires. PVC insulation tapes for low-voltage applications are available in various colors and dimensions. Self-welding, rubber-based tapes are ideal for insulating and sealing cables and connections from low to high and extra-high voltage ranges. HelaTape Tex fabric tapes are versatile and easy to write on.

Features and benefits

- Self-amalgamating, linerless tape for insulating and jacketing splices up to 69 kV
- Excellent electrical, chemical and physical properties
- Building stress cones and jacketing of terminations, bus bars and joints
- Quicker application due to linerless design
- The lack of liner causes less waste
- Uniform and void-free layering
- Very flexible to conform to the most complex shapes
- Compatible with all extruded cable insulations



HelaTape Power 820 provides substantial time saving due to the linerless design.

MATERIAL	Ethylene Propylene Rubber (EPR)
Operating Temperature	-30 °C to +90 °C
Intermittent Operating Temperature	+130 °C
Water Absorption	0.06 %
Tensile Strength	2.8 N/mm ²
Elongation at break (min.)	750 %
Volume Resistance	10 ¹⁶ Ω cm
Dielectric Strength	31.5 kV/mm

RoHS ✓

PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-POWER820-EPR-BK	0.76	19.0	9.1 m	711-10402

All dimensions in mm. Subject to technical changes.



Wire Harness Tape – Hand-tearable Cloth Tape

HelaTape Protect 180

HelaTape Protect tapes are preferably used for cable harnessing in different industries.

Features and benefits

- High quality polyester fabric harnessing tape
- Rubber-based adhesive offers very good heat and media resistance
- High temperature stability from -40 °C to +125 °C
- Temperature resistance tested according to LV312
- Very good resistance against abrasion
- Material is very flexible and tearable by hand
- Excellent ageing resistance, and resistant to rotting in wet or damp conditions such as e.g. white goods and automotive, etc.



HelaTape Protect 180 is very flexible and used for cable harnessing.

MATERIAL	Polyester (PET)
Operating Temperature	-40 °C to +125 °C
Adhesion to Steel	3.0 N/10 mm
Adhesion to Backing	3.0 N/10 mm
Elongation at break (min.)	15 %
Breaking Strength	65 N/10 mm



PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-PROTECT180-PET-BK	0.18	19.0	25.0 m	712-10002

All dimensions in mm. Subject to technical changes.



Wire Harness Tape – Soft and Flexible Fleece Tape

HelaTape Protect 300

HelaTape Protect tapes are preferably used for cable harnessing in different industries.

Features and benefits

- Soft polyester fleece harnessing tape
- High noise reduction and very high resistance against abrasion
- Synthetic rubber based adhesive offers good heat and media resistance
- High temperature stability from -40 °C to +105 °C
- Material is very flexible and tearable by hand
- Excellent ageing resistance, and resistant to rotting in wet or damp conditions such as e.g. white goods and automotive, etc.



HelaTape Protect 300 provides high noise reduction and media resistance.

MATERIAL	Polyester (PET)
Operating Temperature	-40 °C to +105 °C
Adhesion to Steel	2.0 N/10 mm
Adhesion to Backing	2.0 N/10 mm
Elongation at break (min.)	10 %
Breaking Strength	30 N/10 mm



PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-PROTECT300-PET-BK	0.30	19.0	25.0 m	712-10001

All dimensions in mm. Subject to technical changes.



Wire Harness Tape – Strong, High Temperature Cloth Tape

HelaTape Protect 250

HelaTape Protect tapes are preferably used for cable harnessing in different industries.

Features and benefits

- High temperature polyester fabric harnessing tape
- Special acrylate-based adhesive offers very good heat and media resistance
- Very high temperature stability from -40 °C to +150 °C
- Temperature and humidity resistance tested according to LV312
- Very good resistance against abrasion
- Material is very flexible and easy to handle
- Provides long term reliability under varying and extreme environmental conditions
- Excellent ageing resistance, and resistant to rotting in wet or damp conditions such as e.g. white goods and automotive, etc.



HelaTape Protect 250 is designed for cable harnessing and offers a very high temperature resistance.

MATERIAL	Polyester (PET)
Operating Temperature	-40 °C to +150 °C
Adhesion to Steel	3.2 N/10 mm
Adhesion to Backing	3.2 N/10 mm
Elongation at break (min.)	20 %
Breaking Strength	180 N/10 mm



PART DESCRIPTION	Thickness (T)	Width (W)	Length (L)	Article-No.
HTAPE-PROTECT250-PET-BK	0.25	19.0	25.0 m	712-10003

All dimensions in mm. Subject to technical changes.



Connector used for solar panel DC connections

Solar panel connector - MC4 compatible

The solar panel connectors offer quality connections for the solar industry. It uses high quality materials that guarantee long-term reliability, lower contact resistance and higher current transfer capability to ensure high product efficiency.

Features and benefits

- Wide operating temperature range from -40 °C to 85 °C
- UL94-V0 flame retardant certification
- IP68 protection
- UV resistant
- Certified by TUV/UL/IEC/CE standards
- NEC locking system provides security and can be unlocked using the hand-operated tool



Solar panel connector - MC4 compatible.



MATERIAL	Polyamide 6.6, glass-fibre reinforced (PA66GF25), Metal (MET)
Operating Temperature	-40 °C to +85 °C
Voltage range	1500V
Flammability	UL 94 V0

HF ✓

LFH ✓

RoHS ✓

PART DESCRIPTION	Description	Height (H)	Ø (D)	Resistance	Article-No.
PVP_HT20_N_SET-PA66GF25/MET-BK	Negative connector	69.0	18.8	≤0.5mΩ	721-00003
PVP_HT20_P_SET-PA66GF25/MET-BK	Positive connector	64.5	18.8	≤0.5mΩ	721-00002
PVP_HT20_SET-PA66GF25/MET-BK	Set (positive+negative)	-	18.8	≤0.5mΩ	721-00011

All dimensions in mm. Subject to technical changes.



Connection Products

Nylon Cable Glands

Nylon domed headed cable glands are quick and easy to install and cater for a wide range of cable sizes.

A range of quality nylon cable glands that can be used on a wide range of applications when connecting cable to electrical equipment (but not steel wire armoured cable).

Features and benefits

- Material Nylon 66
- Low smoke, zero halogen
- IP rating IP 68
- Metric thread
- available in red, black, white, grey, dark grey
- Complete with lock nut and washer
- Euro slot packaging



MATERIAL	Polyamide 6.6 (PA66)
IP-Rating	IP68



PART DESCRIPTION	Thread Size	Hole Ø (FH)	Pack Cont.	Article-No.
NGM12BK-PA66-BK	M12	3.0 - 6.5	10 pcs.	901-02000
NGM12DGY-PA66-GY	M12	3.0 - 6.5	10 pcs.	901-02001
NGM12GY-PA66-GY	M12	3.0 - 6.5	10 pcs.	901-02002
NGM12RD-PA66-RD	M12	3.0 - 6.5	10 pcs.	901-02003
NGM12WE-PA66-WH	M12	3.0 - 6.5	10 pcs.	901-02004
NGM16BK-PA66-BK	M16	5.0 - 10.0	10 pcs.	901-02005
NGM16DGY-PA66-GY	M16	5.0 - 10.0	10 pcs.	901-02006
NGM16GY-PA66-GY	M16	5.0 - 10.0	10 pcs.	901-02007
NGM16RD-PA66-RD	M16	5.0 - 10.0	10 pcs.	901-02008
NGM16WE-PA66-WH	M16	5.0 - 10.0	10 pcs.	901-02009
NGM20SBK-PA66-BK	M20	6.0 - 12.0	10 pcs.	901-02014
NGM20BK-PA66-BK	M20	10.0 - 14.0	10 pcs.	901-02010
NGM20SDGY-PA66-GY	M20	6.0 - 12.0	10 pcs.	901-02015
NGM20DGY-PA66-GY	M20	10.0 - 14.0	10 pcs.	901-02011
NGM20SGY-PA66-GY	M20	6.0 - 12.0	10 pcs.	901-02016
NGM20GY-PA66-GY	M20	10.0 - 14.0	10 pcs.	901-02012
NGM20SRD-PA66-RD	M20	6.0 - 12.0	10 pcs.	901-02017
NGM20RD-PA66-RD	M20	10.0 - 14.0	10 pcs.	901-02013
NGM20SWE-PA66-WH	M20	6.0 - 12.0	10 pcs.	901-02018
NGM20WE-PA66-WH	M20	10.0 - 14.0	10 pcs.	901-02019
NGM25BK-PA66-BK	M25	13.0 - 18.0	10 pcs.	901-02020
NGM25DGY-PA66-GY	M25	13.0 - 18.0	10 pcs.	901-02021
NGM25GY-PA66-GY	M25	13.0 - 18.0	10 pcs.	901-02022
NGM25RD-PA66-RD	M25	13.0 - 18.0	10 pcs.	901-02023
NGM25WE-PA66-WH	M25	13.0 - 18.0	10 pcs.	901-02024
NGM32BK-PA66-BK	M32	18.0 - 25.0	5 pcs.	901-02025
NGM32DGY-PA66-GY	M32	18.0 - 25.0	5 pcs.	901-02026
NGM32GY-PA66-GY	M32	18.0 - 25.0	5 pcs.	901-02027
NGM32RD-PA66-RD	M32	18.0 - 25.0	5 pcs.	901-02028

All dimensions in mm. Subject to technical changes.



Connection Products

Nylon Cable Glands

PART DESCRIPTION	Thread Size	Hole Ø (FH)	Pack Cont.	Article-No.
NGM32WE-PA66-WH	M32	18.0 - 25.0	5 pcs.	901-02029
NGM40BK-PA66-BK	M40	22.0 - 32.0	5 pcs.	901-02030
NGM40DGY-PA66-GY	M40	22.0 - 32.0	5 pcs.	901-02031
NGM40GY-PA66-GY	M40	22.0 - 32.0	5 pcs.	901-02032
NGM40RD-PA66-RD	M40	22.0 - 32.0	5 pcs.	901-02033
NGM40WE-PA66-WH	M40	22.0 - 32.0	5 pcs.	901-02034
NGM50BK-PA66-BK	M50	30.0 - 38.0	2 pcs.	901-02035
NGM50DGY-PA66-GY	M50	30.0 - 38.0	2 pcs.	901-02036
NGM50GY-PA66-GY	M50	30.0 - 38.0	2 pcs.	901-02037
NGM50RD-PA66-RD	M50	30.0 - 38.0	2 pcs.	901-02038
NGM50WE-PA66-WH	M50	30.0 - 38.0	2 pcs.	901-02039
NGM63BK-PA66-BK	M63	34.0 - 44.0	2 pcs.	901-02040
NGM63DGY-PA66-GY	M63	34.0 - 44.0	2 pcs.	901-02041
NGM63GY-PA66-GY	M63	34.0 - 44.0	2 pcs.	901-02042
NGM63RD-PA66-RD	M63	34.0 - 44.0	2 pcs.	901-02043
NGM63WE-PA66-WH	M63	34.0 - 44.0	2 pcs.	901-02044

All dimensions in mm. Subject to technical changes.

What you do today can improve all your tomorrows.

The standards you set yourself are the best motivation. HellermannTyton is the world's leading cable management pioneer. Every year we file dozens of patents – and we are also dedicated to ecological solutions. Take Robusto, for example, the first cable tie made from sustainable castor oil. Thinking of tomorrow – today.

MADE FOR REAL

