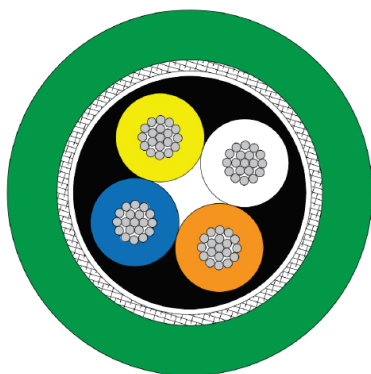


UNIRAIL D – ETHERNET CABLE CATEGORY 5e

Type: **1x4x22 AWG/19 SF/UTP**

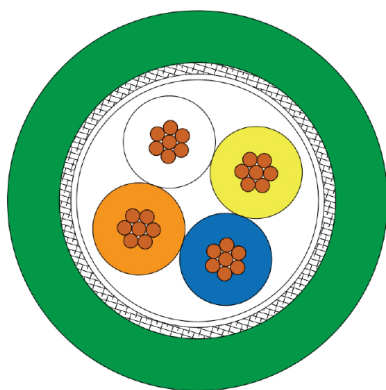
Code: **RW100A**



CONSTRUCTION	
Conductor	stranded tinned copper wire – 22 AWG/19 (0,35 mm ²)
Insulation	Polyolefin
Insulation colours	white ÷ blue ÷ yellow ÷ orange
Assembly of core	Stranded to quad: • pair 1 white/blue • pair 2 yellow/orange
Separation	polyester tape
Inner jacket	Halogen-free compound
Overall shield	aluminium/polyester tape + tinned copper braid 85% coverage
Outer jacket	crosslinked compound, type EM104 according to standard EN 50264-1 - green colour if not otherwise stated
Marking	UNIKA (Italy) – Profinet Cable CAT. 5e (1x4x22 AWG/19) M - 100 ohm - WW/YYYY – <i>traceability code</i>

Type: **1x4x26 AWG/7 SF/UTP**

Code: **RW100B**



CONSTRUCTION	
Conductor	stranded bare copper wire – 26 AWG/7 (0,14 mm ²)
Insulation	polyolefin
Insulation colours	white ÷ blue ÷ yellow ÷ orange
Assembly of core	Stranded to quad: • pair1 white/blue • pair2 yellow/orange
Separation	polyester tape
Overall shield	aluminium/polyester tape + tinned copper braid 85% coverage
Outer jacket	crosslinked compound, type EM104 according to standard EN 50264-1. Green colour if not otherwise stated
Marking	UNIKA (Italy) – Profinet Cable CAT. 5e (1x4x26AWG/7) M - 100 ohm - WW/YYYY – <i>traceability code</i>

Unless otherwise specified, all values are nominal, other values can be provided on request.
The images are made for the sole purpose of illustrating the product and are purely indicative.

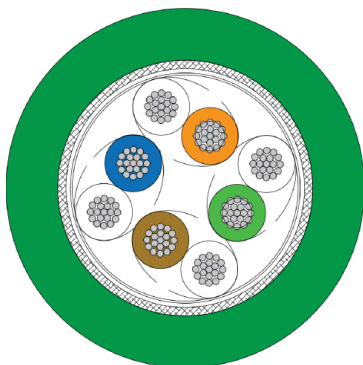
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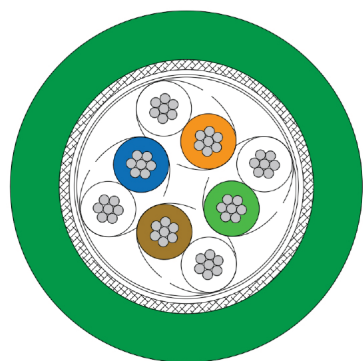
Type: **4x2x22 AWG/19 SF/UTP**
Code: **RW100C**

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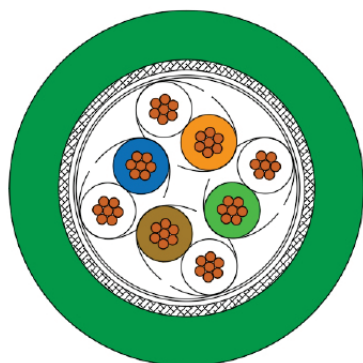
CONSTRUCTION	
Conductor	stranded tinned copper wire – 22 AWG/19 (0,35 mm ²)
Insulation	polyolefin
Insulation colours	white-blue ÷ white-orange ÷ white-brown ÷ white-green
Assembly of core	Pair stranded together : • pair1 white/blue • pair2 white/orange • pair3 white/brown • pair4 white/green
Overall shield	aluminized/ polyester tape - tinned copper braid 85% coverage
Outer jacket	crosslinked compound, type EM104 according to standard EN 50264-1. Green colour if not otherwise stated
Marking	UNIKA (Italy) – Ethernet Cable CAT. 5e (4x2x22AWG/19) M - 100 ohm - WW/YYYY – <i>traceability code</i>

Type: **4x2x26 AWG/7 SF/UTP**
Code: **RW100D**



CONSTRUCTION	
Conductor	stranded tinned copper wire – 26 AWG/7 (0,14 mm ²)
Insulation	polyolefin
Insulation colours	white-blue ÷ white-orange ÷ white-brown ÷ white-green
Assembly of core	Pair stranded together : • pair 1 white/blue • pair 2 white/orange • pair 3 white/brown • pair 4 white/green
Overall shield	aluminized/polyester tape - tinned copper braid 85% coverage
Outer jacket	crosslinked compound, type EM104 according to standard EN 50264-1. Green colour if not otherwise stated
Marking	UNIKA (Italy) – Ethernet Cable CAT. 5e (4x2x26AWG/7) M - 100 ohm - WW/YYYY – <i>traceability code</i>

Type: **4x2x24 AWG/7 SF/UTP**
Code: **RW100E**

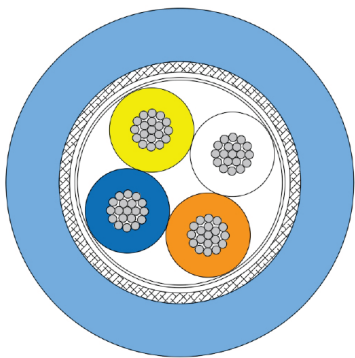
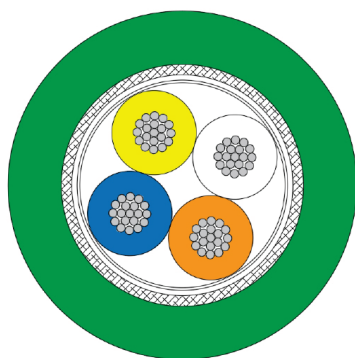


CONSTRUCTION	
Conductor	stranded bare copper wire – 24 AWG/7 (0,25 mm ²)
Insulation	polyolefin
Insulation colours	white-blue ÷ white-orange ÷ white-brown ÷ white-green
Assembly of core	Pair stranded together : • pair1 white/blue • pair2 white/orange • pair3 white/brown • pair4 white/green
Overall shield	aluminized/ polyester tape - tinned copper braid 85% coverage
Outer jacket	crosslinked compound, type EM104 according to standard EN 50264-1. Green colour if not otherwise stated
Marking	UNIKA (Italy) – Ethernet Cable CAT. 5e (4x2x24AWG/7)M - 100 ohm - WW/YYYY – <i>traceability code</i>

Type: **1x4x20 AWG/19 SF/UTP**

Code: **RW100F (for green outer jacket)**

Code: **RW100G (for blue outer jacket)**

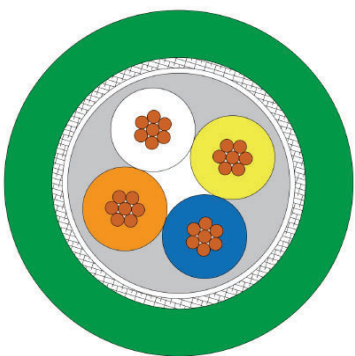


CONSTRUCTION

Conductor	stranded tinned copper wire – 20 AWG/19 (0,50 mm²)
Insulation	polyolefin
Insulation colours	white ÷ blue ÷ yellow ÷ orange
Assembly of core	Stranded to quad: • pair 1 white/blue • pair 2 yellow/orange
Separation	polyester tape
Overall shield	aluminium/polyester tape + tinned copper braid 85% coverage
Outer jacket	crosslinked compound, type EM104 according to standard EN 50264-1. Green colour if not otherwise stated
Marking	UNIKA (Italy) – Profinet Cable CAT. 5e (1x4x20AWG/19)M - 100 ohm - WW/ YYYY – <i>traceability code</i>

Type: **1x4x24 AWG/7 SF/UTP**

Code: **RW100H**

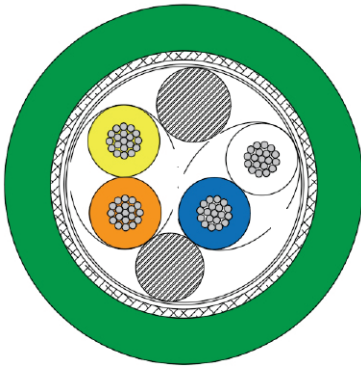


CONSTRUCTION

Conductor	stranded bare copper wire – 24 AWG/7
Insulation	Polyolefin
Insulation colours	white ÷ blue ÷ yellow ÷ orange
Assembly of core	Stranded to quad: • pair 1 white/blue • pair 2 yellow/orange
Separation	polyester tape
Inner jacket	Halogen-free compound
Overall shield	aluminium/polyester tape + tinned copper braid 85% coverage
Outer jacket	crosslinked compound, type EM104 according to standard EN 50264-1 - green colour if not otherwise stated
Marking	UNIKA (Italy) – Profinet Cable CAT. 5e (1x4x24 AWG/7) M - 100 ohm - WW/ YYYY – <i>traceability code</i>

Type: **2x2x22 AWG/19 SF/UTP**
Code: **RW100J**

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CONSTRUCTION	
Conductor	stranded tinned copper wire – 22 AWG/19
Insulation	Polyolefin
Insulation colours	white ÷ blue ÷ yellow ÷ orange
Assembly of core	Stranded to quad: • pair 1 white/blue • pair 2 yellow/orange
Separation	polyester tape
Overall shield	aluminium/polyester tape + tinned copper wire braid
Outer jacket	crosslinked compound, type EM104 according to standard EN 50264-1 - green colour if not otherwise stated
Marking	UNIKA (Italy) – Ethernet Cable CAT. 5e (2x2x22 AWG/19) M - 100 ohm - WW/ YYYY – <i>traceability code</i>

	RW100A 1x4x22 AWG/19	RW100B 1x4x26 AWG/7	RW100C 4x2x22 AWG/19	RW100D 4x2x26 AWG/7	RW100E 4x2x24 AWG/7	RW100F RW100G 1x4x20 AWG/19	RW100H 1x4x24 AWG/7	RW100J 2x4x22 AWG/19
Max DC conductor resistance	60 Ω/km	145 Ω/km	60 Ω/km	170 Ω/km	88 Ω/km	36,4 Ω/km	88 Ω/km	60 Ω/km
Capacitance	55 pF/m	52 pF/m	54 pF/m	52 pF/m	52 pF/m	49 pF/m	50 pF/m	52 pF/m
Characteristic impedance (1÷100 MHz)	100 Ω (±15%)	100 Ω (±15%)	100 Ω (±15%)	100 Ω (±15%)	100 Ω (±15%)	100 Ω (±15%)	100 Ω (±15%)	100 Ω (±15%)
Voltage rating	300 V	300 V	300 V	300 V	300 V	300 V	300 V	300 V
Min insulation resistance	5,0 GΩx-km	5,0 GΩx-km	5,0 GΩx-km	5,0 GΩx-km	5,0 GΩx-km	5,0 GΩx-km	5,0 GΩx-km	5,0 GΩx-km
Nominal velocity of propagation 100MHz	67%	65%	78%	71%	77%	67%	67%	77%
Nominal attenuation 1 MHz	1,8 dB/100m	3,0 dB/100m	2,4 dB/100m	2,6 dB/100m	2,1 dB/100m	1,7 dB/100m	1,7 dB/100m	3,2 dB/100m
10 MHz	5,7 dB/100m	9,1 dB/100m	7,8 dB/100m	8,1 dB/100m	6,0 dB/100m	5,3 dB/100m	6,8 dB/100m	9,5 dB/100m
100 MHz	20,7 dB/100m	29,8 dB/100m	26,4 dB/100m	27,3 dB/100m	21,0 dB/100m	17,8 dB/100m	24,9 dB/100m	32 dB/100m
Nominal weight	63 kg/km	40 kg/km	115 kg/km	60 kg/km	70 kg/km	110 kg/km	65 kg/km	80 kg/km
Nominal diameter	6,5 mm	4,8 mm	8,6 mm	6,5 mm	7,0 mm	8,6 mm	6,2 mm	8,0 mm
Minimum bending radius	8 x outer ø							
Temperature range	-40 °C +90°C							

Fire safety: cables are classified in compliance with the highest requirements established by hazard level HL3 into Standard EN 45545-2 for indoor cables (EL1A) and outdoor cables (EL1B).

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UNIKA - ROLLING STOCK CABLES - UNIRAIL D – ETHERNET CABLE CATEGORY 5e

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