



Industrial Ethernet CAT5e cables with PUR jacket for dynamic applications, shielded, oil resistant, flame retardant

## STANDARDS

**Product** UL and CSA approval

## APPLICATIONS

Bus cables for dynamic applications

## Normative references

UL AWM Listed 80°C 30V

## Flame resistance

IEC 60332.1

## CONTACT

Market information  
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Operating temp.  
-20 ... 80 °C



Storage temperature, range  
-40 ... 80 °C



Oil resistance  
EN 50363-10-2



Flame retardant  
IEC/EN 60332-1-2; FT1; UL 1581 FT1

**CHARACTERISTICS****Construction characteristics**

Conductor material	Bare copper
Insulation	Polyolefin
Taping	Aluminium / Polyester tape
Shielding	75% tinned copper braid coverage
Outer sheath	PUR

**Dimensional characteristics**

Copper content	21 kg/km
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**Electrical characteristics**

Rated Voltage U <sub>o</sub> /U	300 V
Test voltage	1500 V
Characteristic impedance	100 Ohm

**Transmission characteristics**

Attenuation at 1 MHz	3.2 dB/100m
Attenuation at 4 MHz	6.5 dB/100m
Attenuation, max. 10 MHz	9.9 dB/100m
Attenuation at 16 MHz	12.3 dB/100m
Attenuation, max. 20 MHz	13.8 dB/100m
Attenuation, max. 31.25 MHz	17.7 dB/100m
Attenuation, max. 62.5 MHz	25.7 dB/100m
Attenuation, max. 100 MHz	33.00 dB/100m
Near End Cross Talk @ 1 MHz	62 dB
Near End Cross Talk @ 4 MHz	53 dB
Near End Cross Talk @ 10 MHz	47 dB
Near End Cross Talk @ 16 MHz	44 dB
Near End Cross Talk @ 20 MHz	42 dB
Near End Cross Talk @ 31.25 MHz	40 dB
Near End Cross Talk @ 62.50 MHz	35 dB
Near End Cross Talk @ 100 MHz	32 dB




**Mechanical characteristics**



Bending cycles	1 Mio.
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**Usage characteristics**

Field of application	Dynamic
Minimum dynamic operating bending radius	7.5 (xD)
Operating temperature, range	-20 ... 80 °C
Storage temperature, range	-40 ... 80 °C
Oil resistance	EN 50363-10-2
Flame retardant	IEC/EN 60332-1-2; FT1; UL 1581 FT1

## PRODUCT LIST

Reference	Country Ref.	Name	Insulation colour	Sheath colour	Nominal outer diameter [mm]
 10553010	13-DRS24P04P-W1	CAT 5E - (4x2xAWG24)C	1°: Wht+Gry; 2°: Blu+Pnk; 3°: Or+Yel; 4°: Brn+Vlt	Violet RAL 4001	7.2
 10553013	13-DRS26P04P-V1	CAT 5E (4x2xAWG26/7)C	1°: Bl + Wht/Bl; 2°: Or + Wht/Or; 3°: Grn + Wht/Grn; 4°: Brn + Wht/Brn	Green RAL 6018	6.6
 10553011	13-DRS24P04P-W2	CAT 5E (4x2xAWG24/7) - W2	1°: Bl + Wht/Bl; 2°: Or + Wht/Or; 3°: Grn + Wht/Grn; 4°: Brn + Wht/Brn	Violet RAL 4001	7.2

 = Make to order,  = In stock,