

HARTING RJ Industrial[®] Trailing Cable, halogen-free



| Wire: | |
|---|----------------------|
| Stranded tinned copper wire 7 X 0.25 (22 AWG) | ø 0.75 mm (0,030 in) |
| Insulation of Polyethylen (PE) | ø 1.5 mm (0.059 in) |

| Core: | |
|---|---------------------|
| Filler as central element | |
| 1. layer: 4 wire twisted | |
| Sequence of colors: WH-YE-BU-OG | |
| Plastic tape, overlapped | |
| Jacket: Thermoplastic copolymer (FRNC) | ø 3.9 mm (0.154 in) |
| Alulaminat foil overlapped, applied longitudinally | |
| Shield braiding of tinned copper wires 0.13 mm dia (36 AWG) | |
| Coverage about 85% | ø 4.7 mm (0,185 in) |

| Jacket: | |
|-----------------------------|--------------------------------------|
| Polyurethane (PUR) GN | |
| Wall thickness about 0.9 mm | ø (6.5 ±0.2) mm (0.256 ±0.008 in) |

| Electrical data at 20°C: | |
|---|---------------|
| Loop resistance | ≤ 120 Ohm/km |
| Signal run time | ≤ 5.3 ns/m |
| Insulation resistance | ≥ 500 MOhm*km |
| Characteristic impedance 1 – 100 MHz | (100 ± 5) Ohm |
| UL-Rating | 600 V |
| Surface transfer impedance 10 MHz | ≤ 100 mOhm/m |
| Test voltage (wire/wire/screen rms 50Hz 1min) | = 2000 V |



Technical Data Sheet

People | Power | Partnership

Near-end crosstalk attenuation

| Frequency (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 |
|--|------|------|------|------|------|-------|------|------|
| Cat 5E requirements (dB – 100m) \geq | 65.3 | 56.3 | 50.3 | 47.2 | 45.8 | 42.9 | 38.4 | 35,3 |
| typ. Value (dB – 100m) | 80 | 76 | 70 | 65 | 63 | 60 | 55 | 50 |

Attenuation

| Frequency (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 |
|--|-------|-------|-------|-------|-------|-------|------|-------|
| Cat 5E requirements (dB – 100m) \leq | 3.2 | 6.0 | 9.5 | 12.1 | 13.6 | 17.1 | 24.8 | 32.0 |
| typ. Value (dB – 100m) | 2.1 | 4 | 6.3 | 8 | 9 | 11.4 | 16.5 | 21.3 |
| (dB – 100ft) | (0.6) | (1.2) | (1.9) | (2.4) | (2.7) | (3.5) | (5) | (6.5) |

The electrical requirements acc. to EN 50288-2-1

Mechanical and thermal characteristics:

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3)

Jacket material acc. F45052-F5100 (similar to DIN VDE 0282)

Flame retardant acc. to IEC 60332-1-2

Oil resistant acc. to DIN EN 60811-2-1

UL File E119100 Vol.1 Sec. 13

UL-File E119100 Vol.2 Sec. 5 Verified CAT 5E

Other characteristics:

Trailing cables for following requirements (in work)

- 5 million bending cycles

- bending diameter 200 mm

UV-resistant

Trailing cable for following requirements (in work)

5 million bending cycles

bending diameter 200 mm

Pull force

≤ 150 N

Permissible temperature range

-40 °C up to +70 °C

During laying:

- 20 °C up to +60 °C

Transport temperature range:

- 50 °C up to +70 °C

Min. bending radius allowed

repeated 7X \varnothing
single 3X \varnothing

Weight about

61 Kg/km (41 lb/1000ft)



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Technical Data Sheet

| part numbers: | colour: | length: |
|----------------|---------|------------------------------|
| 09 45 600 0101 | green | 100 m |
| 09 45 600 0141 | green | 50 m |
| 09 45 600 0131 | green | 20 m |
| 09 45 600 0111 | green | 500 m non-returnable reel |

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