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| DATA SHEET | 2170893 |
| ETHERLINE® Y FC UL/CSA (CMG) CAT.5e 2x2xAWG22 | Valid from: 14.06.2006 |



Cable design

Wire

Bare copper wire ø 0.64 mm
Insulation of Polyethylene (PE) ø 1.5 mm

Core

Filler as central element
1. layer: 4 wires twisted
Sequence of colours: WH-YE-BU-OG
Plastic tape, overlapped
Inner jacket: Polyvinylchloride (PVC) ø 3.9 mm
Alulaminated foil overlapped, applied longitudinally
Shield braiding of tinned copper wires 0.13 mm diameter
Coverage approx. 90% ø 4.5 mm

Jacket

Polyvinylchloride (PVC) yellow-green RAL 6018 (GN)
Wall thickness approx. 0.9 mm ø (6.5 ±0.2) mm

Marking: LAPP KABEL STUTTGART **ETHERLINE° Y FC UL/CSA (CMG) CAT.5e**
2x2x0.64 * 22AWG (SHIELDED) (UL) E224252 CMG 60°C or PLTC or AWM 20201
600V FT4 SUN RES * ROHS ART. 2170893

Electrical data at 20°C

| | | | |
|--|---|-----------|---------|
| Loop resistance | ≤ | 115 | Ohm/km |
| Signal run time | ≤ | 5.3 | ns/m |
| Insulation resistance | ≥ | 500 | MOhm*km |
| Characteristic impedance 1 – 100 MHz | | (100 ±15) | Ohm |
| Surface transfer impedance 10 MHz | ≤ | 10 | mOhm/m |
| Test voltage (core/core/screen rms 50 Hz 1min) | = | 2000 | V |

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Near-end crosstalk attenuation

| Frequency (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 |
|---------------------------|----|----|----|----|----|-------|------|-----|
| typ. value (dB - 100m) | 80 | 75 | 70 | 65 | 63 | 60 | 55 | 50 |

Attenuation

| Frequency (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| typ. value (dB/100m) | 1,6 | 3,2 | 5,2 | 6,9 | 7,8 | 10,5 | 15 | 19,5 |
| (dB/100ft) | (0,5) | (1,0) | (1,6) | (2,1) | (2,4) | (3,2) | (4,6) | (5,9) |

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. to DIN EN 50290-2-22 (VDE 0819), compound type TM52 (HD 624.2)

Flame retardant acc. to IEC 60332-1-2

Other characteristics:

Limited oil resistance

UV-resistant

Tensile loading: ≤ 150 N

Permissible temperature range : - 40°C up to +70°C

During laying : - 20°C up to +60°C

Transport temperature range : - 40°C up to +70°C

Min. bending radius allowed : repeated $7.5 \times \varnothing$, single $5 \times \varnothing$

PVC weight with Phthalate : 32.0 kg/km

PVC weight without Phthalate : 0.0 kg/km

Weight approx. : 66 Kg/km (45 lb/1000ft)

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