



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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