



<h1>DATA SHEET</h1>	2170886
ETHERLINE® Y FLEX FC UL/CSA (CMG) CAT.5e 2x2xAWG22/7	Valid from: 22.08.2005



Cable design

Wire

Stranded tinned copper wire 7 X 0.25
Insulation of Polyethylene (PE)

∅ 0.75 mm (0,030 in)
∅ 1.5 mm (0,059 in)

Core

Filler as central element
1. layer: 4 wires
Sequence of colours: WH-YE-BU-OG
Plastic tape, overlapped
Inner jacket: Polyvinylchloride (PVC)
Alulaminated foil overlapped
Shield braiding of tinned copper wires 0.13 mm diameter
Coverage approx. 85%

∅ 4.7 mm (0,185 in)

Jacket

Polyvinylchloride (PVC) GN
Wall thickness about 0.9 mm

∅ (6.5 ±0.2) mm (0,256 ±0,008 in)

Marking: LAPP KABEL STUTTGART **ETHERLINE® Y FLEX FC UL/CSA (CMG) CAT.5e** 2x2x0.75 *
22AWG (SHIELDED) (UL) E224252 CMG 60°C or PLTC or AWM 20201 600V FT4 SUN RES *
ROHS ART. 2170886

Electrical data at 20°C

Loop resistance	≤	120	Ohm/km
Signal run time	≤	5.3	ns/m
Insulation resistance	≥	500	MOhm*km
Characteristic impedance		(100 ±15)	Ohm
UL-Rating		600	V
Surface transfer impedance	≤	100	mOhm/m
Test voltage (core/core/screen rms 50Hz 1min)	=	2000	V



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Near-end crosstalk attenuation

Frequency (MHz)	1	4	10	16	20	31.2 5	62.5	100
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
typ. value (dB/100m) (dB/100ft)	2,1 (0,6)	4 (1,2)	6,3 (1,9)	8 (2,4)	9 (2,7)	11,4 (3,5)	16,5 (5,0)	21,3 (6,5)

The electrical requirements similar to EN 50288-2-1

Mechanical and thermal characteristics

Conductor/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 UL 1685 (CSA FT 4)

Other characteristics:

Limited oil resistance
 Sunlight resistant acc. to UL 1581 Sec.1200

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 ø, single 3X ø
 PVC weight with Phthalate : 30.6 Kg/km
 PVC weight without Phthalate : 0.0 Kg/km
 Weight approx. : 67 Kg/km (45 lb/1000ft)

Application:

Cable for flexible installation

2YY(ST)CY 2X2X0.75/1.5 LI VZN