

HM Flat Cable

✧ UL STYLE:2678

UL&CSA GRADE :2678

CSA Standard : C22.2 No. 210.2

Rate temperature : 105° C

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Rate voltage : 150V

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Flame test : VW-1

Flame test : FT1,FT2

✧ CONDUCTOR : Stranded

AWG size : 30 AWG

Number of strands in each conductor : 7/0.102mm.

Lay of strands in each conductor : 0.5 inch at least

Cross section area : 98 mil.

✧ CONDUCTOR : Single

AWG size : 30 AWG

Conductor : 0.254 mm

Cross section area : 98 mil.

✧ INSULATION :

Material of insulation : polyvinyl chloride(PVC) deep gray and gray

Insulation thickness average : 7 mil.

Minimum insulation thickness : 6 mil.

✧ PHYSICAL PROPERTIES : After 7 days air oven at 136° C

Average tensile strength : 1500 lbs/inch²

Percent of original : 70% at least

Average elongation : 200%

Percent of original : 65% at least

✧ ELECTRONIC CHARACTERISTICS :

Spark test : 1500V

Dielectric strength test : Minimum 1500 V in 1 minute

Conductor resistance : Maximum 377Ω /km

Insulation resistance : Minimum 1GΩ -m

Capacity : 75pF/m(G-S-G) 49pF/m(G-S)

Characteristic Impedance : 72Ω (G-S-G) 113Ω (G-S)

Propagation delay time : 5.4ns/m

Conductor resistance : Maximum 361Ω /km

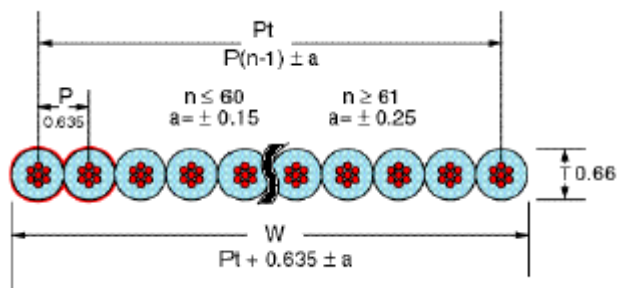
Capacity : 71pF/m(G-S-G) 47pF/m(G-S)

Characteristic Impedance : 80Ω(G-S-G) 115Ω (G-S)

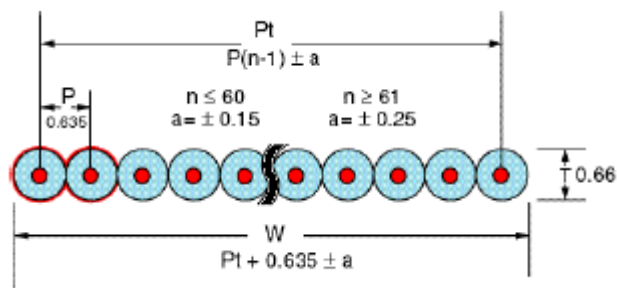
Propagation delay time : 5.2ns/m

✧ CONSTRUCTION DRAWING:

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Specification: (N=Number of conductors)



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✧ USAGE :

Internal connection in computers , duplicators, fax machines, electronic games, interface cards and many other electronic equipment and devices.

✧ SAMPLE



✧ CONSTRUCTION TABLE

Code No.	Number	Siz e of conductor			Thic kness (mm±0.05)	Width (mm)	PT (mm)	Allowable error (mm)
	of Cores	(AWG)	Composition (solid/mm)					
			Stranded Conductor	Solid Conductor				
HM-68	68	30	7/0.102	0.254	0.66	43.18(1.7 ± 0.01)	42.545(1.675 ± 0.01)	± 0.25
HM-80	80	30	7/0.102	0.254	0.66	50.80(2.0 ± 0.01)	50.165(1.975 ± 0.01)	± 0.25
HM-100	100	30	7/0.102	0.254	0.66	63.50(2.5 ± 0.01)	62.865(2.475 ± 0.01)	± 0.25