

1 2 3 4

(7/0.135TA*1PR+EAM)*2+(7/0.127TA*1PR+A)+7/0.127TA*2C+AB 85% USB3.0 UL2725		Structure A	Structure B	Structure C
Structure AWG	AWG	28# (7/36)	28# (7/36)	28# (7/36)
Material		Tinned Copper	Tinned Copper	Tinned Copper
O.D.	mm	0.38 Ref	0.38 Ref	0.38 Ref
Material		FOAM-SKIN-PE	FOAM-PE	SR-PVC
Diameter	mm	1±0.07	0.84±0.05	0.82±0.05
Average Thickness	mm	0.310	0.230	0.220
Color		AS Color Code	AS Color Code	AS Color Code
Direction		Left (Z) (Ref)	Left (Z) (Ref)	
Diameter	mm	2 Ref	1.68 Ref	
Material		AL-foil/mylar	AL-foil/mylar	
Conductive Side		Inside	Inside	
Overlap Rate	%	25 MIN	25 Ref	
Material		Hof-melt-Mylar		
Conductive Side				
Overlap Rate	%	25 MIN		
Structure AWG	AWG	28# (7/36)		
Material		Tinned Copper		
Direction			Left (Z) (Ref)	
Pitch	mm		75 Ref	
Diameter	mm		4.1 Ref	
Material			AL-foil/mylar	
Conductive Side			Outside	
Overlap Rate	%		25 MIN	
Shield			Braid	
Material			Tinned Copper	
Coverage Rate	%		85 MIN	
Material			PVC	
Diameter	mm		5.5 ± 0.2	
Min Thickness	mm		0.23	
Extrusion			Semi substantiate	
Externals			Plane	
Color			PE4Q(PE195) (BLUE)	

**Electric Characters**

- Voltage rating : 30V
- Temperature rating : 60°C
- Spark test: AC: 500V / 0.15 sec MIN.
- Dielectric strength : AC: 750V/1sec MIN.
- Insulation resistance: FOAM-SKIN-PE, PE, DC: 500V 100 MΩ/KM MIN. at 20°C  
SR-PVC: DC: 500V 10MΩ/KM MIN. at 20°C
- Conductor resistance : 28AWG-237 Ω/KM MAX. at 20°C

**Transmission Characters**

- Differential Impedance: 90±7% Ω (1PR+EAM)\*2
- Attenuation : (1PR+EAM)\*2

Frequency (MHz)	0.625 GHz	1.25 GHz	2.5 GHz	5.0 GHz	7.5 GHz
Attenuation (MAX) dB	1.0 dB	1.5 dB	2.5 dB	3.6 dB	4.7 dB

Intra-pair skew : 15 PS/IN

- Conductor resistance unbalance : 5% (1PR+A:GREEN\*WHITE)
- Attenuation: (1PR+A:GREEN\*WHITE)

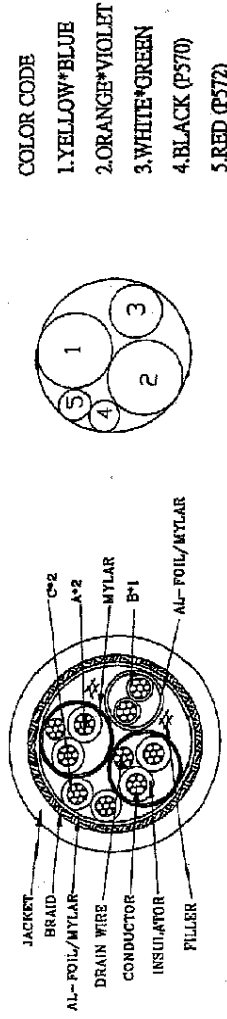
Frequency (MHz)	0.512	0.772	1.00	4.00	8.00	12.0
Attenuation (MAX) dB	0.130	0.150	0.20	0.390	0.570	0.760
	24.0	48.0	96.0	200.0	400.0	
	0.950	1.350	1.90	3.20	5.80	

- Impedance: (1PR+A:GREEN\*WHITE): 30Ω±30% @ TDR (Common mode)  
90Ω±15% @ TDR (differential)
- Propagation Delay: (1PR+A:GREEN\*WHITE): 5.2ns/M MAX
- Propagation Delay skew: (1PR+A:GREEN\*WHITE): 100PS MAX

**Physical Characters**

- Flame test of cable:
  - Horizontal Flame Test
- Tensile strength test ( before aging ):
  - Sheath : > 1.05kg/mm<sup>2</sup>
  - Insulation : > 1.05kg/mm<sup>2</sup>
- Tensile strength test ( after aging ):
  - Sheath : > 70%
  - Insulation : > 70%
  - Insulation : > 70%
  - Elongation ( before aging ):
    - Sheath : > 100%
    - Insulation : > 100%
  - Elongation ( after aging ):
    - Sheath : > 65%
    - Insulation : > 65%
- Requirements for green environment protection: Accord with RoHS

ZONE	REV	DESCRIPTION	DATE	APPROVED



BY	DATE	PAN PACIFIC ENTERPRISES CO., INC. PART NO MCC-USB3-500
DRAWN		
CHK'D		
APPRV		
MATERIAL		UNITS
FINISH		SCALE
		NONE
		SHEET
		1 OF 1

1 2 3 4