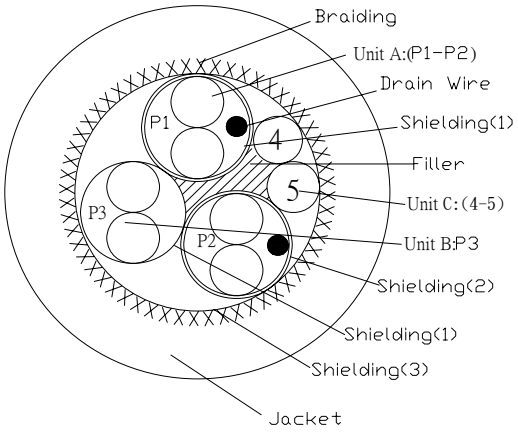
USB3 Type #1



Color code

Unit A:
P1.Blue-Yellow
P2.Violet-Orange

Unit B:
P3.White-Green

Unit C:
4.Black
5.Red

ITEM		Unit A	Unit B	Unit C
No.of Cord.		2 Pairs	1 Pair	2 Conductors
Conductor	Material	Tinned Copper Wire Stranded	Tinned Copper Wire Stranded	Tinned Copper Wire Stranded
	Construction	28AWG; 7 strands / 0.127 ± 0.008 mm	28AWG; 7 strands / 0.127 ± 0.008 mm	26AWG; 7 strands / 0.16 ± 0.008 mm
Insulation	Material	FoamPE+Skin	PE	SR-PVC
	Nom. thickness	0.28 mm	0.30 mm	0.24 mm
	Diameter	0.95 ± 0.05 mm	0.98 ± 0.05 mm	0.95 ± 0.05 mm
Drain Wire(1)	Material	Tinned Copper Wire Stranded		
	Construction	28AWG; 7 strands / 0.127 mm		
Shielding(1)	Material	Aluminum Mylar Spirally Wrapped	Aluminum Mylar Spirally Wrapped	
	Coverage	100% coverage with 25% overlapping	100% coverage with 25% overlapping	
Shielding(2)	Material	Hot-melt Transparent Mylar Spirally Wrapped		
	Coverage	100% coverage with 25% overlapping		
Shielding(3)	Material	Aluminum Mylar Spirally Wrapped		
	Coverage	100% coverage with 25% overlapping		
Braiding	Material	Tinned Copper Wire		
	Construction	85% Coverage		
Jacket	Material	PVC		
	Nom.thickness	0.23 mm		
	Diameter	5.5 ± 0.20 mm		

Marking: E74020-C AWM STYLE 2725 80℃ 30V VW-1 DER AN USB3.0

DRWN.	Liumin	**SPEC NO:**	**Construction:**
CHKD.		**Sa11142**	**(28AWG×1Pair+D+AM+HM)×2PCS+(28AWG×1Pair+AM)×1PCS+26AWG×2C+F+AB**
APPD.		DATE:Apr.-09-2011	

USB3 Type #1

ELECTRICAL PROPERTIES

1.Temperature rating : 80℃

2. Voltage rating : 30V

3.Conductor Resistance : 28AWG, Max. 237 Ohms/Km at 20℃,26AWG, Max. 148 Ohms/Km at 20℃

4.Insulation Resistance :Unit A、C Min. 10 mega ohms-km at 20℃

Unit B ,Min. 100 mega ohms-km at 20℃

5. Dielectric Test : 500 VAC /1 min ; No Breakdown

▼6. Impedance (Unit A) :Differential mode (TDR) : 90 ± 10 Ohms (200ps rise time 10%-90%)

▼7.Unit B Impedance : Differential mode (TDR) : 90±13.5Ohms(200ps rise time 10%-90%)

Common mode (TDR) : 30 ± 9 Ohms;(200ps rise time 10%-90%)

▼8. Attenuation A : Max.1.0(0.625GHz); 1.5(1.25GHz);2.5(2.50GHz); 3.6(5.0GHz);4.7(7.5GHz)dB /m

▼9. Attenuation B: Max. 0.13 (0.512 MHz); 0.15(0.772MHz); 0.20(1MHz); 0.39(4MHz); 0.57(8MHz); 0.76(12MHz); 0.95(24MHz); 1.35(48MHz) 1.90(96MHz);3.2(200MHz);5.8(400MHz)dB/3.1m;

▼10.Unit A Intra-Pair Skew : Max. 15ps/m (200ps rise time 10%-90%),at 50% of the input voltage

MECHANICAL PROPERTIES:

1.Test Objiect	Jacket
1.1 Test Material	PVC
Before Tensile Strength (Mpa)	≧10.35
Aging Elongation(%)	≧100
1.2 Aging Condition (Temperature)	113±2℃×168H
After Tensile Strength (Mpa)	≧70% of original
Aging Elongation(%)	≧65% of orignal
1.3 Deformation (121±1℃×1H)	≦50%(2000g)
1.4 Cold Bend (-20±2℃×4H)	No Crack
1.5 Heat Shock (121±1℃×1H)	No Crack
1.6 Flame Test	VW-1