

**BULK CABLE SPECIFICATION**

SPECIFICATION		USB3.0 30#(7/0.10TC*1P+7/0.10TC+AL-FOIL+HM-MYLAR)*2P+(7/0.08TC)*1P+65/0.08TC 1C+					
		D65/0.08TC+D41/0.08TC+F+AL-FOIL+144/0.08TC,OD=4.50					
CONSTRUCTION ITEM		COMPONENT A	COMPONENT B	COMPONENT C	COMPONENT D	COMPONENT E	
CONDUCTOR	CONSTRUCTION AWG	AWG	30 (2P)	32 (1P)	22 (1C)	22 (D)	24 (D)
	MATERIAL		BARE COPPER			TINNED COPPER	
	CONDUCTIVE SIZE	No/mm	7/0.10±0.008	7/0.08±0.008	65/0.08±0.008	65/0.08±0.008	41/0.08±0.008
INSULATOR	MATERIAL		PE	PE	PP	/	/
	OUTSIDE DIAMETER	mm	0.80±0.05	0.45±0.05	1.00±0.05	/	/
	INSULATORS No.	PCS	2P	1P	1C	DRAIN	DRAIN
DRAIN WIRE	MATERIAL		STC	/	/	/	/
	DRAIN SIZE	No/mm	7/0.10±0.008	/	/	/	/
FACE INSIDE AL.MYLAR	COVERAGE	%	100	/	/	/	/
	OVERLAP	%	25 Min.	/	/	/	/
HOT MELT MYLAR	COVERAGE	%	100	/	/	/	/
	OVERLAP	%	25 Min.	/	/	/	/
FILLER	MATERIAL		COTTON(OPTIONAL)				
FACE OUTSIDE AL.MYLAR	COVERAGE	%	100				
	OVERLAP	%	25 Min.				
BRAID SHIELD	MATERIAL		TINNED COPPER				
	CONDUCTIVE SIZE	No/mm	16/9/0.08±0.008, 80% COVERAGE				
JACKET	MATERIAL		PVC				
	DIAMETER	mm	4.50±0.15				
	COLOR		BLACK				
<b>ELECTRICAL CHARACTERISTICS</b>		<b>PHYSICAL CHARACTERISTICS OF JACKET</b>					<b>CROSS SECTION VIEW</b>
1.RATED TEMP: 80°C; 30V		1.TENSILE STRENGTH (BEFORE AGING): Sheath : > 1.05kg/mm2					
2.Insulation Resistance: Min. 100MΩ-10m at 20°C		2.Elongation before aging: Sheath : >100%					
3.CONDUCTOR RESISTANCE: at 20°C ; 30AWG:<354Ω/KM;22AWG<59.4Ω/KM 32AWG:<589Ω/KM;24AWG<94.2Ω/KM		<b>STP characteristic(meet USB3.1 GEN 1 requirement)</b>					
4.Dielectric strength : AC-500V/MIN		10. Impedance (Ω) : Differential :90±7					
<b>UTP characteristic (meet USB2.0 requirement)</b>		11.Intra -Pair Skew: 15Ps/m					
5.Impedance:Differential:90Ω±15%		12 Attenuation (dB/2M): frequency(MHZ): 100 1250 2500 7500 Attenuation(dB/2M): 1.5 5 7.5 25					
6.Common:30Ω±30%		13. Diffierential to Common mode: 20 Db/Cable @0.1~7.5G					
7.Delay (ns/m): 5.2 ns/m 8.Delay skew (ps):100ps		<b>REGULATORY COMPLIANCE:</b>					
9.Attenuation (d B/cable): frequency(MHZ): 0.512 48 96 400 Attenuation: 0.13 1.35 1.9 5.8		CE2011/65/EU(RoHS DIRECTIVE)					
							1P: 1 . White-2.Green 1C: 3. Red 2P: 4.White-Blue (Red Al-foil) 5.White-Blue (Green Al-foil)
							<b>MARKING</b>
							NONE
							<b>REMARK</b>

Approved by: B.GATES 5/22/2017

Prepared by: R.CLARK 5/19/2017

VERSION	DESCRIPTION	DATE	APPROVED
C	ECN 9114: UPDATE PER VENDOR SPEC	2018/3/26	S.LI
B	ECN 8977: REVISE TO VENDOR SPEC	2017/10/26	D.FRISIELLO
A	CN COMPONENT RELEASE	2017/5/19	R.CLARK