

### 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+				
CONSTRUCTION ITEM	COMPONENT A	COMPONENT B	COMPONENT C	COMPONENT D	COMPONENT E
CONSTRUCTION AWG	30 (2P)	32 (1P)	22 (1C)	22 (D)	24 (D)
AWG					
MATERIAL	BARE COPPER				
CONDUCTIVE SIZE	No/mm	7/0.10±0.008	65/0.08±0.008	65/0.08±0.008	41/0.08±0.008
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
MATERIAL	STC	/	/	/	/
DRAIN SIZE	No/mm	7/0.10±0.008	/	/	/
COVERGE	%	100	/	/	/
OVERLAP	%	25 Min.	/	/	/
COVERGE	%	100	/	/	/
OVERLAP	%	25 Min.	/	/	/
MATERIAL	COTTON(OPTIONAL)				
COVERGE	%	100	/	/	/
OVERLAP	%	25 Min.	/	/	/
MATERIAL	TINNED COPPER				
COVERGE	%	100	/	/	/
OVERLAP	%	25 Min.	/	/	/
MATERIAL	TINNED COPPER				
CONDUCTIVE SIZE	No/mm	16/9/0.08±0.008, 80% COVERAGE			
MATERIAL	mm	PVC			
DIAMETER	mm	4.50±0.15			
COLOR	BLACK				
<b>PHYSICAL CHARACTERISTICS OF JACKET</b>					
1. TENSILE STRENGTH (BEFORE AGING): Sheath : > 1.05kg/mm2					
2. Elongation before aging: Sheath : >100%					
<b>STP characteristic(meet USB3.1 GEN 1 requirement)</b>					
10. Impedance (Ω) : Differential :90±7					
11. Intra -Pair Skew: 15Ps/m					
12. Attenuation (dB/2M): 100 1250 2500 7500					
frequency(MHZ): 1.5 5 7.5 25					
Attenuation(dB/2M): 1.5 5 7.5 25					
13. Differential to Common mode: 20 Db/Cable @0.1~7.5G					
<b>REGULATORY COMPLIANCE:</b>					
CE2011/65/EU(RoHS DIRECTIVE)					
<b>REMARK</b>					
NONE					
<b>COLOR CODE</b>					
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>ELECTRICAL CHARACTERISTICS</b>					
1. RATED TEMP: 80°C; 30V					
2. Insulation Resistance: Min. 100MΩ-10m at 20°C					
3. CONDUCTOR RESISTANCE: at 20°C ;					
30AWG:<354Ω/KM;22AWG<59.4Ω/KM					
32AWG:<589Ω/KM;24AWG<94.2Ω/KM					
4. Dielectric strength : AC-500V/MIN					
<b>UTP characteristic (meet USB2.0 requirement)</b>					
5. Impedance: Differential:90Ω±15%					
6. Common:30Ω±30%					
7. Delay (ns/m): 5.2 ns/m 8. Delay skew (ps):100ps					
9. Attenuation (d B/cable):					
frequency(MHZ): 0.512 48 96 400					
Attenuation: 0.13 1.35 1.9 5.8					

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