



RAISON ENTERPRISE CO., LTD.
(11491) No.12, Lane321, Yangguang St, Neihu Dist, Taipei, Taiwan

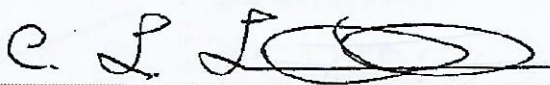
Messrs.	.....	Date:	<u>Jun. 6, 2016</u>
	.....	Spec. No.:	<u>TCE105016A</u>
	.....	Design No.:	<u>CL102138</u>
Purchaser	.....	File No.:	<u>10015584</u>
		

Our Proforma Invoice No.

Subject :

Flexible Low Loss Coaxial Cable
2.8D-FB-UF LSFH PE Jacket
(CFD195S-FR)

According to : PEWC Specification TCE105016A

Signed By 

C. L. Lee

Manager
Communication Cable Division



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SPECIFICATION FOR Flexible Low Loss Coaxial Cable 2.8D-FB LSFH PE Jacket (CFD195S-FR)

1. CABLE CONSTRUCTION

Inner Conductor :

Stranded copper wire (in accordance with ASTM B8 or CNS C 2031)

Dielectric :

Gas-Injected Foam Polyethylene for high velocity of propagation and low loss requirement.

Outer Conductor :

Aluminum / PE tape with tinned copper wire will be used for outer conductor to offer the best shield effect and flexible.

Jacket :

LSFH PE (Low Smoke Free Halogen) compound.

Cable Marking :

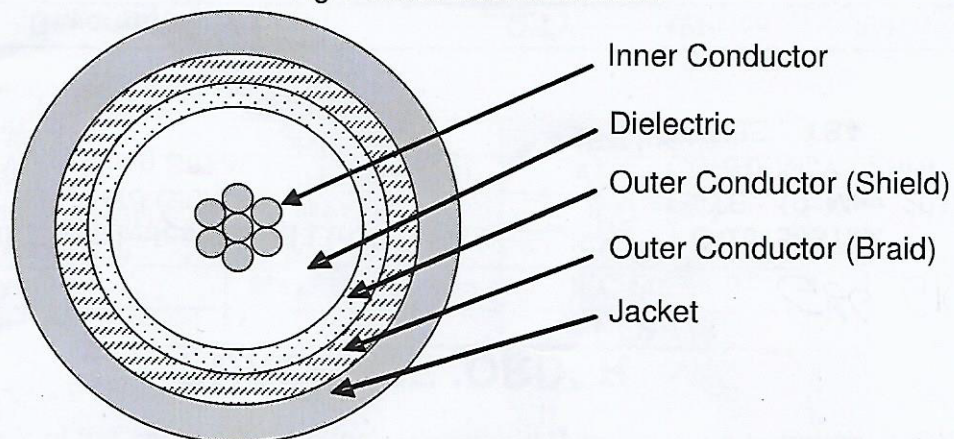
Cable will be Marking by suitable methods and the content will be included manufacturer name (or abbreviation), product type or by customer requirements.

For example : CFD195S-FR △ LOW △ LOSS △ 50 △ OHM △ COAXIAL △ CABLE △
COMMATE/PEWC△3D"

Properties Statement For RoHS & REACH :

This product can comply with requirement of RoHs 2.0 and REACH SVHC 174 substances.

Fig.1 Cross-section of cable





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Construction table

construction type	Inner Conductor		Dielectric		Outer Conductor				Jacket		
	Diameter (Approx.) mm	Material	Diameter (Approx.) mm	Material	Diameter (Approx.) mm	Shield Material	Braid Material	Coverage (Approx.) %	Diameter (Approx.) mm	Color	Material
2.8D-FB-UF	0.96	Stranded Copper Wire	2.79	Foam PE	3.4	Aluminum/ PE Tape	Tinned copper wire	95	5.0	Black	LSFH PE

Dimensions are nominal value.

2. ELECTRICAL PROPERTIES : (at 20°C)

Spec. Type	Conductor resistance nom. Ω/KM	Characteristic impedance @ 200MHz nom Ω	Velocity of propagation nom %	VSWR (Note) max.	Capacitance nom pF/M	Voltage withstanding AC. V/1min.
2.8D-FB-UF	31.2	50	76	1.3	83	1000

Note : VSWR will be test in the frequency range (810~960、1300~1400、1500~1600、1710~1885、1915~2025、2100~2200、2400~2500MHz), and the other test frequency only for reference.

Spec. Type	Nom. Attenuation dB/100M										
	30 MHz	50 MHz	150 MHz	220 MHz	450 MHz	900 MHz	1500 MHz	1800 MHz	2000 MHz	2500 MHz	5800 MHz
2.8D-FB-UF	7.7	9.9	17.3	21.1	30.4	43.4	56.77	62.4	65.9	74.2	116.7

Note : Maximum value shall be not exceeded 115% of the nominal value.

3. MECHANICAL PROPERTIES

Spec. Type	Minimum bending radius mm	Weight (Kg/m) Nom.	Tensile strength kg	Operating temperature range °C
		LSFH PE		
2.8D-FB-UF	12.7	0.04	≤18.2	-40 ~ +85

4. PROPERTIES FOR LSFH PE JACKET :

Item	Specification	Test method
Smoke density	Dm4 Max.150	ASTM E662
Halogen acid gas evolution	Max.0.5%	IEC 754-1
Combustion acid gas	Min. pH 4.3	IEC 60754-2
Conductivity	Max. 10 μs/mm	IEC 60754-2
Toxicity index	Max. 5	NES 713

5. PACKING

5.1 Both ends of the cable will be effectively sealed to prevent the entrance of moisture.

5.2 Coil, plywood reel, wooden drum or crate will be used by options, and suitable protection will be over it.

***** END OF SPECIFICATION *****