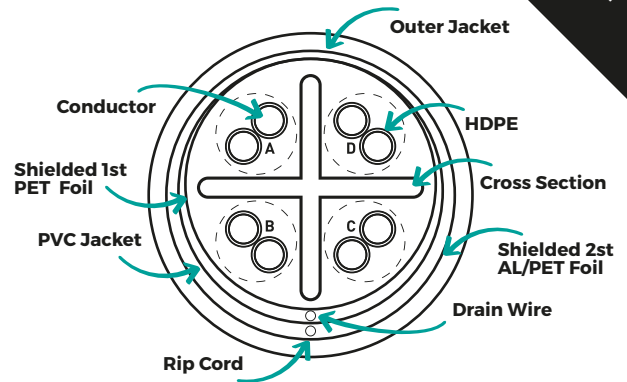


LAN CABLE

F/UTP CAT7 - 305m

CM-043-CPR

Type U/UTP	Conductor 24 AWG	Category 6
Jacket PVC	Length 305m	Type Pass Fluke



Conductor

Conductor	Pure copper
Size	23 AWG

Insulation

HDPE Dielectric Diameter	$\phi 1.1 \pm 0.08\text{mm}$
Material	HDPE

Jacket

Jacket Diameter	$7.3 \pm 0.2\text{mm LSZH}$
Color	Light gray
Material	PVC
Jacket Thickness	0.6mm
Surface	Smooth

Electrical Characteristics

DC Resistance	$<9.38 \Omega / 100\text{m} @ 20^\circ\text{C}$
DC Resistance unbalance	5% @ 20°C
Mutual Capacitance	5.1 nF/100m
Characteristic Impedance	1 - 100 MHz : $100 \pm 15 \Omega$; 100 - 200 MHz : $100 \pm 22 \Omega$; 200 - 500 MHz : $100 \pm 32 \Omega$
Max Frequency	500MHz
Capacitance Unbalance	330 pF/100m
NVP	66%
Delay Skew	$\leq 45\text{ns}/100\text{m}$

Frequency	RL (Min.)	Insertion Loss (Max.)	Propagation Delay (Max.)	Delay Skew (Max.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB/100m	dB/100m
1	20.0	2.1	570.0	45.0	72.3	67.8	64.8
4	23.0	3.8	552.0	45.0	63.3	55.8	52.8
10	25.0	6.0	545.4	45.0	57.3	47.8	44.7
16	25.0	7.6	543.0	45.0	54.2	43.7	40.7
20	25.0	8.5	542.1	45.0	52.8	41.8	38.8
31.25	23.6	10.7	540.4	45.0	49.9	37.9	34.9
62.5	21.5	15.4	538.6	45.0	45.4	31.9	28.9
100	20.1	19.8	537.6	45.0	42.3	27.8	24.8
200	18.0	29.0	536.1	45.0	37.8	21.8	18.8
300	17.3	36.4	536.1	45.0	35.1	18.3	15.3
400	17.3	43.0	535.8	45.0	33.3	15.8	12.8
500	17.3	45.3	535.6	45.0	31.8	13.8	10.8