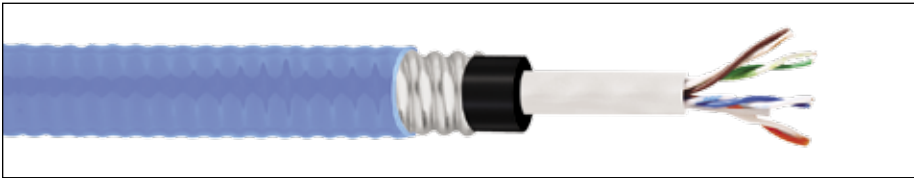


# Industrial Ethernet Category 5e - 4 Pair CCW<sup>®</sup>



**Applications:**

- For high speed data transmission. Tested to 100 MHz
- CID1 applications
- Recognized for use in Class I and III, Divisions 1 and 2; Class II, Division 2; or Class 1, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial

**Compliances:**

- TIA/EIA 568-B.2 Category 5e
- UL Listed, NEC Type ITC-HL, 300 V, CT USE, SUN RES, DIR BUR, -40°C

**Features and Benefits:**

- CCW armor provides an impervious barrier to moisture, gas and liquids
- Meets cold bend at -55°C
- Insulation and inner jacket passes ASTM D746-04 brittleness temperature impact test at -73°C
- Arctic-grade PVC inner sheath and outer jacket passes ASTM D746-04 brittleness temperature impact test at -60°C

CATALOG NUMBER	NOMINAL O.D.		CABLE WEIGHT MFT		NO. PAIRS	COND. AWG SIZE	PAIR COLOR CODE	INSULATION MATERIAL	SHIELD COVERAGE	RIPCORD	JACKET MATERIAL	JACKET THICKNESS		JACKET COLORS
	INCHES	mm	LBS	kg								INCHES	mm	
9899.CT02104000	0.930	23.62	382	173	4	21	1: Blue/White, Blue 2: Orange/White, Orange 3: Green/White, Green 4: Brown/White, Brown	Fluoropolymer	Unshielded	Polyester	Fluoropolymer	0.180	4.57	Light Blue

Frequency (MHz)	Insertion Loss (dB/100 m) max.	Next (dB/100 m) min.	PSNext (dB/100 m) min.	ACRF (dB/100 m) min.	PSACRF (dB/100 m) min.	Char. Impedance (Ohms) (+/-15)	Return Loss (dB) min.
1	2.0	66.3	65.3	63.8	60.8	100	20.0
4	4.1	56.3	53.3	51.7	48.7	100	23.0
8	5.8	51.8	48.8	45.7	42.7	100	24.5
10	6.5	50.3	47.3	43.8	40.8	100	25.0
16	8.2	47.3	44.3	39.7	36.7	100	25.0
20	9.3	45.8	42.8	37.7	34.7	100	25.0
25	10.4	44.3	41.3	35.8	32.8	100	24.3
31.25	11.7	42.9	39.9	33.9	30.9	100	23.6
62.5	17.0	38.4	35.4	27.8	24.8	100	21.5
100	22.0	35.3	32.3	23.8	20.8	100	20.1

**ELECTRICAL CHARACTERISTICS**

Maximum DC Resistance	9.3 Ohms/100 m @ 20° C
Maximum DC Resistance Unbalance, Ind Pair	5%
Nominal Velocity of Propagation	70%
Characteristic Impedance (Frequency 1-350 MHz)	Ohms: 100±15

