

CATEGORY 7 S/FTP 4 PAIR 23 AWG CABLE

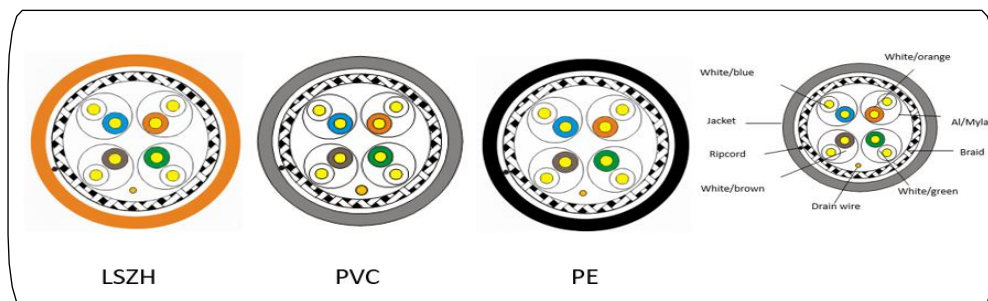
PART NO: R11885ENH

DESCRIPTION: Ramcro CAT7 S/FTP 4Pair 23AWG Cable - LSZH - Orange

PART NO: R11885E-PE

DESCRIPTION: Ramcro CAT7 S/FTP 4Pair 23AWG Cable - PE - Black

ramcro
special cables



Construction

Cable Construction: S/FTP
Conductor Material: Bare Copper
Conductor Construction: Solid
Conductor Size: 23 AWG
Conductor Nominal OD: $0.560 \pm 0.005\text{mm}$
Insulation Material: Skin - foam – Skin PE
Insulation Diameter: $1.330 \pm 0.05\text{ mm}$
Individual Shield & Material: Al/Mylar
Outer Shield & Material, Coverage: Aluminum Magnesium Alloy , $\geq 30\%$
Drain Wire: Yes
Rip Cord; Yes
Outer Jacket: LSZH, PVC, PE
Outer jacket Thickness: $0.55 \pm 0.05\text{ mm}$
External O.D.: $7.6 \pm 0.5\text{ mm}$
Total Number of Pairs: 4 (8 Insulated wires formed into 4 pairs)
Color Code: Color Code As per TIA/EIA 568-B,
1 White/Blue, 2 White/Orange, 3 White/Green, 4 White/Brown
Packing length: $305 \pm 1.5\text{m}$

Electrical & Physical Characteristics

Operating Temperature Range : $-20^{\circ}\text{C} - +75^{\circ}\text{C}$
DC Resistance per core at 20°C : 9.38 max (0/100m)
Impedance: $(1-100\text{MHz}) 100 \pm 15\Omega$, $(100-250\text{MHz}) 100 \pm 18\Omega$
 $(250-1000\text{MHz}) 100 \pm 25\Omega$
DC Resistance Unbalance (%) 2

Standard Compliance

ISO/IEC 11801 2nd Edition EN 50288-4-1
RoHS

Application

- Category 7A / Class FA up to 1000 MHz
- 1000Base-T, 10GBASE-T, 25GBASE-T (Gigabit Ethernet)
- PoE, PoE+, PoE++ support
- VoIP, IP cameras, wireless access points
- High-speed data, voice & video LANs
- Horizontal cabling installations
- Ideal for data centers, industrial environments, and high-EMI areas
- Backward compatible with Cat 6A, Cat 6 and Cat 5e systems

Transmission Performance

Frequency (MHz)	Return Loss ($\geq \text{dB}$)	ATTENUATION	NEXT	DELAY	PSNEXT	ELFET	PSELFEXT
		($\leq \text{dB}$)	($\geq \text{dB}$)	($\leq \text{dB}$)	($\geq \text{dB}$)	($\geq \text{dB}$)	($\geq \text{dB}$)
1	20	—	78	570	75	78	75
4	23	3.74	78	552	75	78	75
8	24.5	5.24	78	546.7	72.9	75.9	75
10	25	5.86	78	545.4	71	74	75
16	25	7.41	78	543	66.9	69.9	75
20	25	8.29	78	542	65	68	75
25	24.3	9.29	78	541.2	63	66	75
31.25	23.6	10.41	78	540.4	61.1	64.1	75
62.5	21.5	14.88	75.5	538.6	55.1	58.1	72.5
100	20.1	19.02	72.4	537.6	51	54	69.4
150	18.9	23.56	69.8	536.9	47.2	50.2	66.8
200	18	27.47	67.9	536.5	45	48	64.9
250	17.3	30.97	66.4	536.3	43	46	63.4
300	17.3	34.19	65.2	536.1	41.5	44.5	62.2
600	17.3	50.1	60.7	535.5	35.4	38.4	57.7
700	14.2	54.63	59.7	535.4	34.1	37.1	56.7
1000	13.1	66.93	57.3	535.1	31	34	54.4