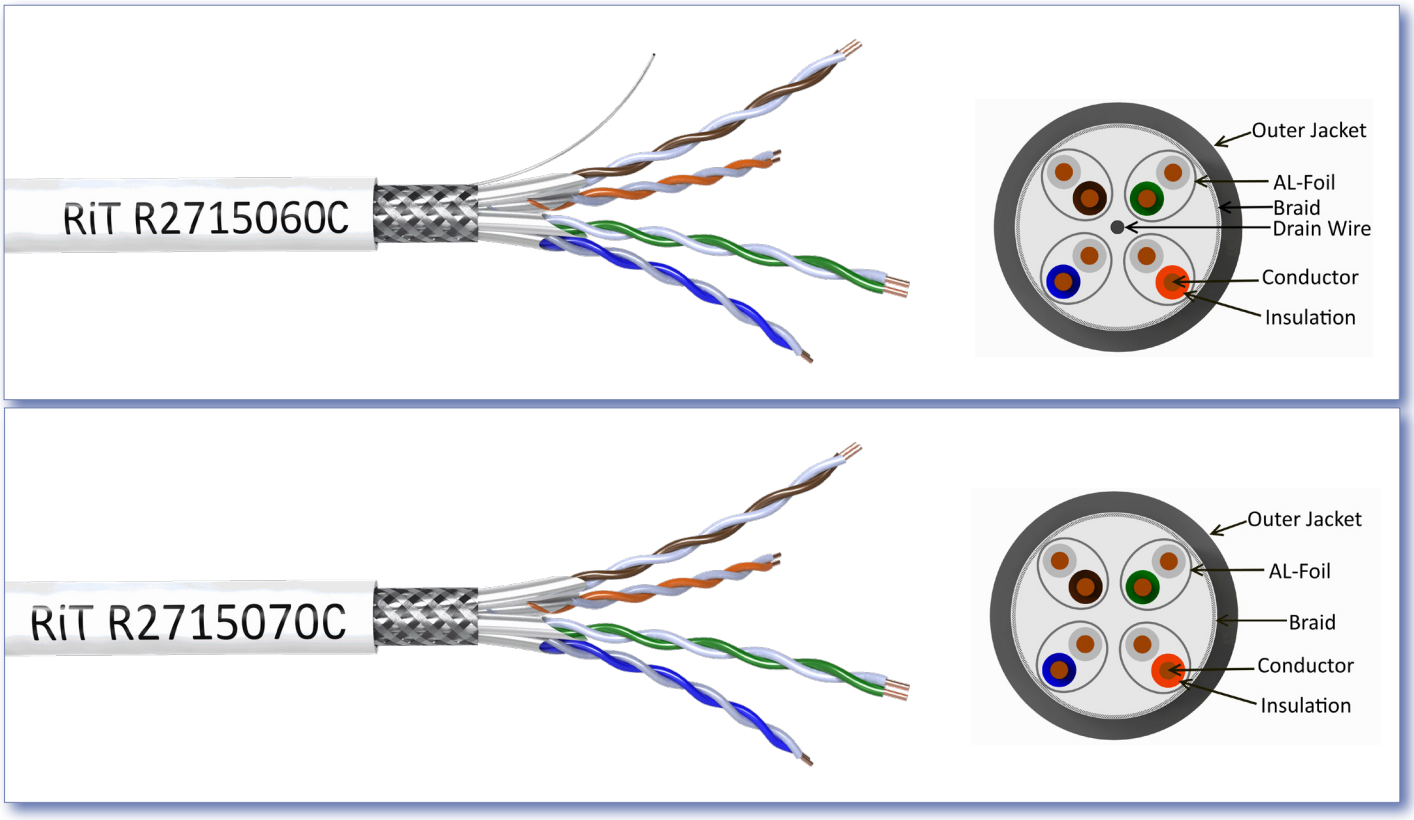

RiT Category 7A S/FTP Cable, 23 AWG solid wires, 4 individually AL-Foil shielded twisted pairs, Overall braiding (30/40/50/55%), with/without drain wire, cabled together and jacketed with LSZH FR compound.

KEY APPLICATIONS

- 10/100/1000Base-T, 10G
- Power over Ethernet (PoE)

KEY FEATURES

- Designed to support Cat 7A Link and Channel performance
- Electrical performance up to 1000 MHz
- Supports PoE Type 4 applications (IEEE 802.3bt)
- Exceeds the requirements of ISO/IEC 11801 (IEC 61156-5)
- 100% factory tested

STANDARDS COMPLIANCE

- IEC 61156-5
- ISO/IEC 11801
- IEEE 802.3bt (PoE Type 4)
- Flammability Rating:
  IEC 60332-1
  IEC 60332-3-22(3A)
  IEC 60332-3-24(3C)
- Acid Gas Emission Test IEC 60754-1&2
- Smoke Density Test IEC 61034-1&2
- EU Regulation CPR Class Dca-s1a,d1,a1
- RoHS2: Directives 2011/65/EU, 2015/863/EU

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TECHNICAL SPECIFICATION

FREQ.	Attenuation	RL	NEXT	PS NEXT	EL FEXT	PS ELFEXT	Delay
MHz	dB/100m	dB	dB	dB	dB	dB	ns/100m
4	3.7	23	78	75	78	75	552
8	5.2	24.5	78	75	77.2	74.2	547
10	5.8	25	78	75	75.3	72.3	545
16	7.3	25	78	75	71.2	68.2	543
20	8.2	25	78	75	69.3	66.3	542
25	9.2	24.3	78	75	67.3	64.3	541
31.25	10.3	23.6	78	75	65.4	62.4	540
62.5	14.6	21.5	78	75	59.4	56.4	539
100	18.5	20.1	75.4	72.4	55.3	52.3	538
200	26.5	18	70.9	67.9	49.3	46.3	537
250	29.7	17.3	69.4	66.4	47.3	44.3	536
300	32.7	17.3	68.2	65.2	45.8	42.8	536
500	42.8	17.3	64.9	61.9	41.3	38.3	536
600	47.1	17.3	63.7	60.7	39.7	36.7	535
800	54.9	16.1	61.9	58.9	37.2	34.2	535
1000	61.9	15.1	60.4	57.4	35.3	32.3	535

Cable Construction	
Outer Jacket Diameter & Color	Ø7.8 mm, Light Gray
Outer Jacket Material	LSZH, FR (Flame Retardant)
Outer Jacket Thickness	0.7 mm
Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Conductor unit lay-up	Twisted Pairs
Number of conductors	8
Drain-wire (when applicable)	Ø0.4 mm Tinned Copper
Insulation Material	Foam Polyethylene
Color Code	White - Blue, White - Orange, White - Green, White - Brown
Ind. Pair Shield Design	Helically applied Polyester-Aluminum foil 100% coverage
Ind. Pair Shield Material	Aluminum/ Poly-laminated Foil
Overall Shielding	Tined Copper wire braiding (30/40/50%/55% coverage)
Cable Marking	RiT P/N, Cable Description, Meter Mark and Batch Number

Electrical Characteristics	
Frequency Range	1000 MHz
Characteristic Impedance	100 Ω ±15 Ω (1-100Mhz) 100 Ω ±22 Ω (101-250Mhz) 100 Ω ±25 Ω (251-1000Mhz)
Max. DC Resistance	77 Ω/Km
Insulation Resistance	5000 MΩ•Km min. @ 500 Vdc
Coupling Attenuation	IEC 61156-5 Type I
Screening Attenuation	60 dB min @ 30-1000 MHz
Max. Resistance Unbalance	2 % (in pairs)
Capacitance	56 pF/m nom. @ 1 KHz
Max. Propagation Delay	534+36/f1/2 nS/100m
Max. Propagation Delay Skew:	20 ns/100m
Max. Capacitance Unbalance	1600 pF/1Km
Dielectric Strength	700 V/ 1 minute
NVP	74%
Min. Insulation Resistance	5 GΩ •km
Max. Voltage Rating	72 Vdc

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Mechanical Properties	
Minimum Bending Radius	8xOD
Maximum Pulling Force	110 N
Storage Temperature	-20°C to +70°C
Operating Temperature	-20°C to +65°C
Installation Temperature	0°C to +50°C
Weight	~ 64 Kg/Km (55% Braid)

ORDERING INFORMATION

P/N	DESCRIPTION
R2715000C	CAT 7A, S/FTP, Horizontal Cable, 23AWG, 30% Braiding, LSZH, 332-3-22/24, with Drain Wire, Gray, 500m Reel
R2715010C	CAT 7A, S/FTP, Horizontal Cable, 23AWG, 40% Braiding, LSZH, 332-3-22/24, with Drain Wire, Gray, 500m Reel
R2715020C	CAT 7A, S/FTP, Horizontal Cable, 23AWG, 50% Braiding, LSZH, 332-3-22/24, with Drain Wire, Gray, 500m Reel
R2715060C	CAT 7A, S/FTP, Horizontal Cable, 23AWG, 55% Braiding, LSZH, 332-3-22/24, with Drain Wire, Gray, 500m Reel
R2715030C	CAT 7A, S/FTP, Horizontal Cable, 23AWG, 30% Braiding, LSZH, 332-3-22/24, without Drain Wire, Gray, 500m Reel
R2715040C	CAT 7A, S/FTP, Horizontal Cable, 23AWG, 40% Braiding, LSZH, 332-3-22/24, without Drain Wire, Gray, 500m Reel
R2715050C	CAT 7A, S/FTP, Horizontal Cable, 23AWG, 50% Braiding, LSZH, 332-3-22/24, without Drain Wire, Gray, 500m Reel
R2715070C	CAT 7A, S/FTP, Horizontal Cable, 23AWG, 55% Braiding, LSZH, 332-3-22/24, without Drain Wire, Gray, 500m Reel

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