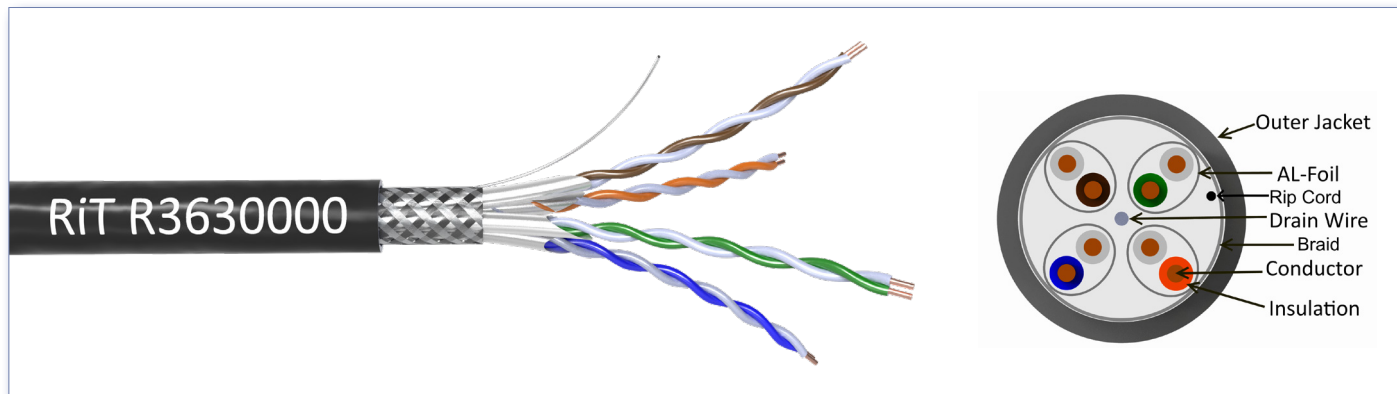




RiT Category 7A S/FTP Cable, 22 AWG solid wires, 4 individually AL-Foil shielded twisted pairs, Overall braiding 55%, with drain wire, cabled together and jacketed with LLDPE compound.

KEY APPLICATIONS

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

KEY FEATURES

- Designed to support Cat 7A Link and Channel performance
- Electrical performance tested up to 1200 MHz
- Supports PoE Type 4 applications (IEEE 802.3bt)
- 100% factory tested

STANDARDS COMPLIANCE

- IEC 61156-5
- ISO/IEC 11801-1
- IEEE 802.3bt (4PPoE)
- RoHS 2 Directives 2011/65/EU, 2015/863/EU

TECHNICAL SPECIFICATION

FREQ.	Attenuation	NEXT	PS NEXT	EL FEXT	PS EL FEXT	RL	TCL	EL TCL	PS ANEXT	PS AFEXT
MHz	dB/100m	dB	dB	dB	dB	dB	dB	dB	dB	dB
1	2.1	78.0	75.0	78.0	75.0	20.0	40.0	35.0	67.0	67.0
4	3.7	78.0	75.0	78.0	75.0	23.0	34.0	23.0	67.0	67.0
10	5.8	78.0	75.0	75.3	72.3	25.0	30.0	15.0	67.0	67.0
20	8.2	78.0	75.0	69.3	66.3	25.0	28.0	9.0	67.0	67.0
25	9.2	78.0	75.0	67.3	64.3	24.3	26.0	7.0	67.0	65.2
31.25	10.3	78.0	75.0	65.4	62.4	23.6	25.2	5.1	67.0	63.3
62.5	14.6	78.0	75.0	59.4	56.4	21.5	22.0	-	67.0	57.3
100	18.5	75.4	72.4	55.3	52.3	20.1	20.0	-	67.0	53.2
200	26.5	70.9	67.9	49.3	46.3	18.0	17.0	-	67.0	47.2
250	29.7	69.4	66.4	47.3	44.3	17.3	16.0	-	67.0	45.2
300	32.7	68.2	65.2	45.8	42.8	17.3	-	-	67.0	43.7
400	38.0	66.4	63.4	43.0	40.0	17.3	-	-	67.0	41.2
500	42.8	64.9	61.9	41.3	38.3	17.3	-	-	67.0	39.2
600	47.1	63.7	60.7	39.7	36.7	17.3	-	-	65.8	37.6
700	51.1	62.7	59.7	38.0	35.0	16.6	-	-	64.8	36.3
800	54.9	61.9	58.9	37.2	34.2	16.1	-	-	64.0	35.1
1000	61.9	60.4	57.4	35.3	33.3	15.1	-	-	62.5	33.2
1200	69.0	59.2	56.2	32.0	29.0	14.3	-	-	61.3	31.6

Note: The cables comply with IEC 61156-5 CAT7A standard requirements. The transmission values above 1000 MHz are for reference only

Cable Construction	
Outer Jacket Diameter & Color	Ø7.8 ± 0.4mm, Black
Outer Jacket Thickness	0.6mm
Outer Jacket Material	LLDPE UV Resistance
Conductor Material	Annealed Bare Copper Ø0.62 ±0.01mm
Conductor Size	22 AWG
Conductor Construction	Solid
Insulation Material	SFS PO
Conductor unit lay-up	Twisted Pairs
Number of conductors	8
Drain-wire	Ø0.4 ±0.01mm Tinned Copper
Color Code	White - Blue, White - Orange White - Green, White - Brown
Ind. Pair Shield Design	Aluminum poly laminate foil 100% coverage
Overall Shielding	Tined Copper wire braid 55% coverage

Electrical Characteristics	
Frequency Range	1-1200 MHz
Mean Characteristic Impedance	100 Ω ±5 @ 100Mhz
Max. DC Resistance	60 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



Mechanical Properties	
Minimum Bending Radius	8 x OD
Maximum Pulling Force	110 N
Operating Temperature	-40°C to +70°C
Installation Temperature	0°C to +50°C
Weight	60 kg/km
Rip Cord	Yes

ORDERING INFORMATION

P/N	DESCRIPTION
R3630000	CAT 7A, S/FTP, Outdoor Cable, 22AWG, 55% Braid, LLDPE, with Drain Wire, Black , 500 m Reel