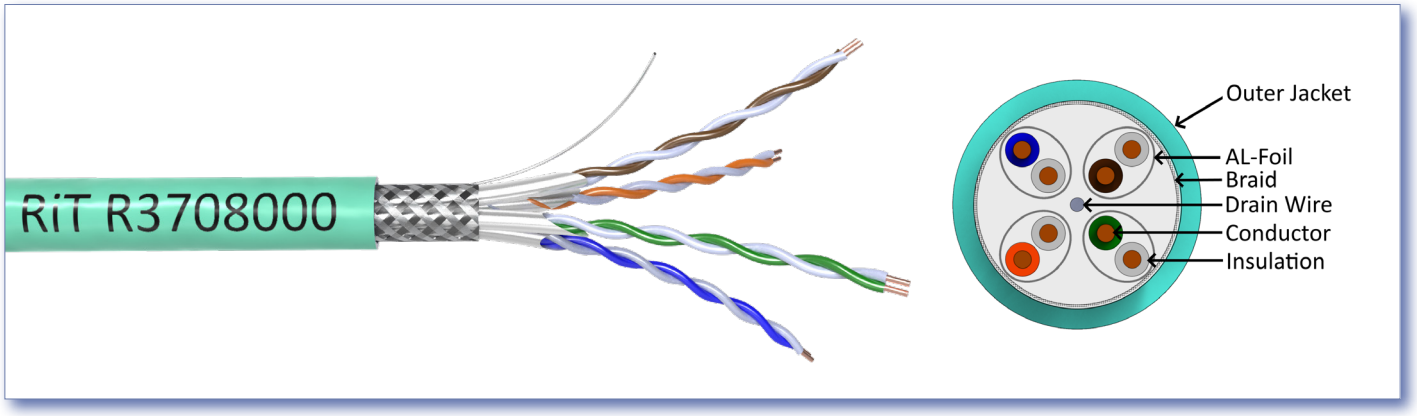
Cat 8.2 S/FTP 22AWG LSZH 55% Braid Horizontal Cable

Copper | Cables | Cat 8.2



RiT Category 8.2 S/FTP Horizontal Cable contains 4 individually foil-shielded twisted pairs, cabled together with a drain wire, overall braid-shielded and jacketed with a Low Smoke, Zero Halogen (LSZH) compound
Applications: Data-Centers/SANs, Optimized for IEEE 802.3bt 4PPoE, High data rates, High bandwidth digital applications with low BER, Indoor/Outdoor use for fixed installations.

KEY APPLICATIONS

- Indoor use
- 10/100/1000Base-T, 10G
- Power over Ethernet

KEY FEATURES

- Designed to support Category 8.2 Link and Channel performance
- Electrical performance up to 2000 MHz
- Supports PoE Type 4 applications (IEEE 802.3bt)
- Exceeds the requirements of ISO/IEC 11801
- 100% factory tested

STANDARDS COMPLIANCE

- IEC 61156-9
- IEC 61156
- ISO/IEC 11801-1
- ANSI/TIA-568.2-E
- IEEE 802.3bt (4PPoE)
- IEC 60332-1
- IEC 60332-3
- CPR Cca s1d1a1
- UL 1581 VW-1
- EN 50575:2014
- RoHS 2 Directives 2011/65/EU, 2015/863/EU

RiT Tech (Intelligence Solutions) Ltd.
5B Atir Yeda St. Kfar Saba, 4464315, Israel | Tel: +972-77-2707270 | Fax: +972-3-6474115 | www.rittech.com

Cat 8.2 S/FTP 22AWG LSZH 55% Braid Horizontal Cable

Copper | Cables | Cat 8.2

TECHNICAL SPECIFICATION

Cable Construction	
Outer Jacket Diameter & Color	Ø8.6 mm, Light Green
Outer Jacket Material	FR-LSZH
Conductor Material	Annealed Bare Copper
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 mm Tinned Copper
Color Code	White - Blue, White - Orange, White - Green, White - Brown
Ind. Pair Shield Design	Helically applied Aluminum foil 100% coverage
Ind. Pair Shield Material	Aluminum/ Polyester Foil
Overall Shielding	Tined Copper wire braid 55% coverage

Electrical Characteristics	
Frequency Range	1- 2000 MHz
Impedance	100 Ω
Coupling Attenuation:	Type I
Max. DC Resistance	55 Ω/km@20°C
Max. Resistance Unbalance	2 %
Capacitance Unbalance	1.2 pF/m max.
Velocity of Propagation	73 % nom.
Propagation Delay Skew	20 ns/100m max.
Dielectric Strength:	700 V/minute
Dielectric Strength to Shield	700 V/minute
Min. Insulation Resistance	5 GΩ•km

Mechanical Properties	
Minimum Bending Radius	60 mm
Tensile Strength - Short Term	140 N
Operating Temperature	-40°C to +65°C
Installation Temperature	0°C to +50°C
Weight	82 kg/km
UV Resistance	Yes

ORDERING INFORMATION

P/N	DESCRIPTION
R3708000	CAT8.2 Horizontal Cable, S/FTP, 22AWG, 55% Braid, FR-LSZH, Light Green, 500m Reel

4556920_B1

RiT Tech (Intelligence Solutions) Ltd.
5B Atir Yeda St. Kfar Saba, 4464315, Israel | Tel: +972-77-2707270 | Fax: +972-3-6474115 | www.rittech.com