

Engineered for long-distance, high-power performance, we can deliver:

Product Code: HSP-XR-RJ45-PT

Cat6

Cat6 22AWG Solid Copper

U/UTP No Overall Screening

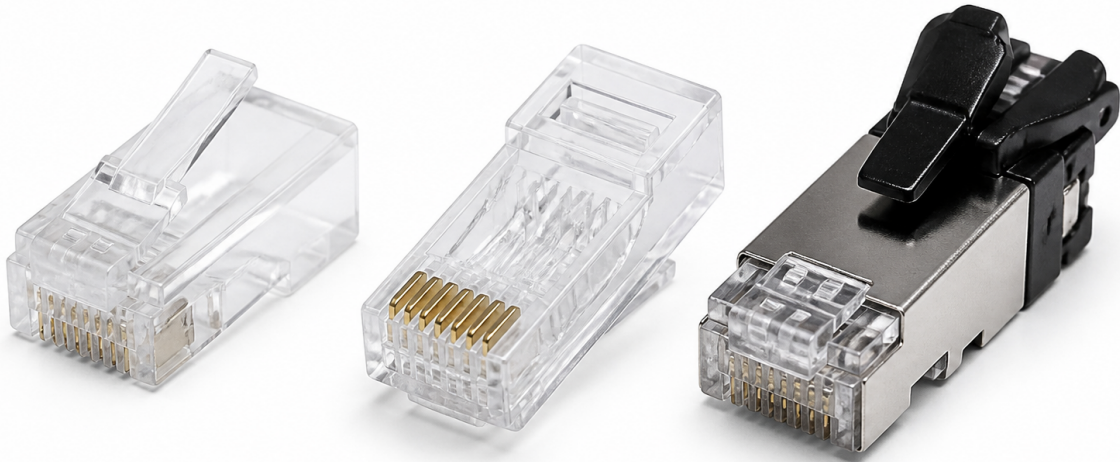
No Conductor Screening

Outer Sheath Colour Clear

Reaction-to-fire class EN 13501-6 NPD

Smoke development class EN13501-6 NPD

Fixed Building Installation



Product Overview

Hyperspan™ XR Pass-Through RJ45 Connector. Hyperspan XR product for structured copper infrastructure. Confirm final availability and certified documentation with Hyperspan Technical Support for live projects.

Each cable consists of 8 colour-coded solid oxygen-free copper conductors, arranged into four balanced twisted pairs. Construction: U/UTP. Overall screening: None. Conductor screening: None.

The cable is finished with a LSZH outer sheath (Clear) and is intended for structured cabling installations where the declared reaction-to-fire performance NPD is required.



Cable ID/ Test ID: 200 M TEST2

Test Limit: *Hyperspan 200 m / 1 Gb Channel_V2*
Limits Version: V0.0
Date / Time: 07/22/2026 04:00:16 PM
Headroom 6.5 dB (RL 4,5)

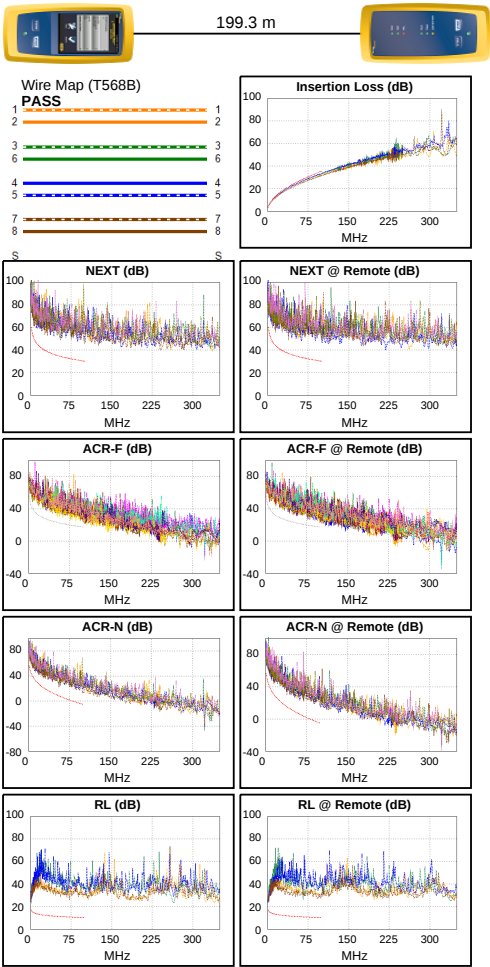
Main: Versiv
S/N: 2437852
Software Version: V7.0 Build 3
Calibration Date: 08/26/2022
Adapter: DSX-5000 (DSX-CHA004)
S/N: 3658986

Test Summary: PASS

Remote: Versiv
S/N: 2989284
Software Version: V7.0 Build 3
Calibration Date: 06/04/2015
Adapter: DSX-5000R (DSX-CHA004)
S/N: 2379261

Cable Type: Cat 6 U/UTP

Length (m), Limit 200.0	[Pair 7,8]	199.3
Prop. Delay (ns), Limit 1080	[Pair 4,5]	1033
Delay Skew (ns), Limit 64	[Pair 4,5]	58
Resistance (ohms), Limit 25.40	[Pair 4,5]	23.82
Resist. Unbal. (ohms), Limit 0.700	[Pair 1,2]	0.042
Resist. P2P Unbal. (ohms), Limit 1.800	[Pair 4,5-7,8]	0.277
Insertion Loss Margin (dB)	[Pair 4,5]	1.9
Frequency (MHz)	[Pair 4,5]	100.0
Limit (dB)	[Pair 4,5]	35.4



	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-7,8	3,6-4,5	1,2-7,8
NEXT (dB)	12.1	12.8	16.2	14.8
Freq. (MHz)	7.5	1.8	100.0	62.5
Limit (dB)	49.0	59.4	30.1	33.5
Worst Pair	4,5	1,2	4,5	7,8
PS NEXT (dB)	14.8	14.4	18.7	17.1
Freq. (MHz)	7.5	1.8	100.0	62.5
Limit (dB)	45.9	56.3	27.0	30.5
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-1,2	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	9.0	8.8	9.1	8.8
Freq. (MHz)	91.5	99.3	99.3	99.3
Limit (dB)	18.2	17.5	17.5	17.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	9.9	10.3	9.9	10.3
Freq. (MHz)	99.3	99.5	99.3	99.5
Limit (dB)	14.5	14.4	14.5	14.4
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-7,8	3,6-4,5	3,6-4,5
ACR-N (dB)	12.4	13.2	18.1	21.8
Freq. (MHz)	7.5	1.8	100.0	99.5
Limit (dB)	39.7	54.9	-5.3	-5.2
Worst Pair	4,5	1,2	4,5	3,6
PS ACR-N (dB)	15.1	14.7	20.5	23.9
Freq. (MHz)	7.5	1.6	100.0	99.5
Limit (dB)	36.6	53.0	-8.3	-8.2
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	4,5	7,8	4,5
RL (dB)	9.2	6.5	9.2	6.5
Freq. (MHz)	1.3	1.0	1.3	1.0
Limit (dB)	17.0	17.0	17.0	17.0

Project: ERR 500
Site: Not Set
Floor: Not Set
Rack: Not Set
Hyperspan_custom2.flw

Building: Not Set
Room: Not Set
Patch: Not Set

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Fluke LinkWare channel test (XR evidence)



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PRODUCT SPECIFICATION

Characteristic	Value
Conductor Surface	Bare copper
Conductor Material	99.99% Oxygen-Free Copper
AWG Size	22 AWG
Conductor Category	Class 1 – Solid
Total Number of Cores	8
Stranding Element	Twisted pairs
Core Insulation	High-density polyethylene (HDPE)
Cable Construction	U/UTP
Overall Screening	None
Conductor Screening	None
Outer Sheath Material	LSZH
Outer Sheath Colour	Clear
Packaging	500m
Flame Retardant (IEC 60332-1-2)	yes
Reaction-to-Fire (EN 13501-6)	NPD
Smoke Development (EN 13501-6)	NPD
Flaming Droplets (EN 13501-6)	NPD
Acidity (EN 13501-6)	NPD
Outer Diameter (approx.)	ca. 6.1–7.5 mm (construction dependent)
Installation Temperature Range	-10°C to +60°C
Operating Temperature Range	-20°C to +75°C
NVP	69 %
Application	—
Warranty	25-Year System Warranty

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Standards

Applicable Standards	Subject
ISO/IEC 11801	Information technology — Generic cabling for customer premises
EN 50173-1	Information technology — Generic cabling systems
ANSI/TIA-568.2-D	Balanced twisted-pair telecommunications cabling
EN 50575:2014+A1:2016	Power, control and communication cables — reaction to fire
EN 13501-6	Fire classification of construction products — cables
EN 50399	Common test methods for cables under fire conditions
EN 60332-1-2	Tests on electric and optical fibre cables under fire conditions
EN 61034-2	Measurement of smoke density of cables burning under defined conditions
EN 60754-2	Test on gases evolved during combustion of materials from cables

Environmental & Compliance Certifications	
RoHS-II / RoHS-III	Compliant — hazardous substance restrictions
WFD / SCIP	Support for substance information where applicable
POPs (EU)	Persistent organic pollutants requirements observed
CE / UKCA	Conformity marking as applicable to intended market
Declared CPR class	NPD
DoP reference	HSP-DOP-XR-RJ45-PT

Power, control and communication cables — cables for general applications in construction works subject to reaction-to-fire requirements. Confirm the certified Declaration of Performance revision with Hyperspan Technical Support before procurement or installation.