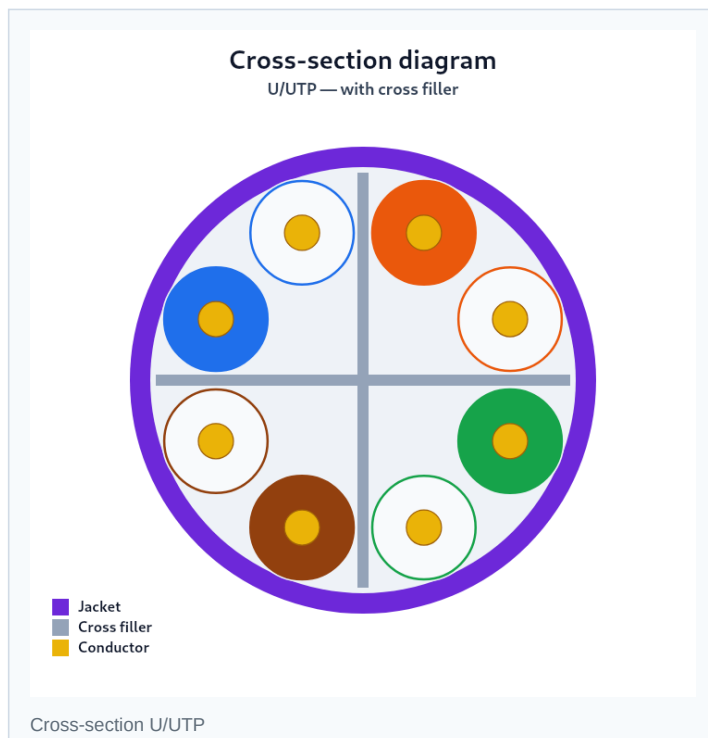
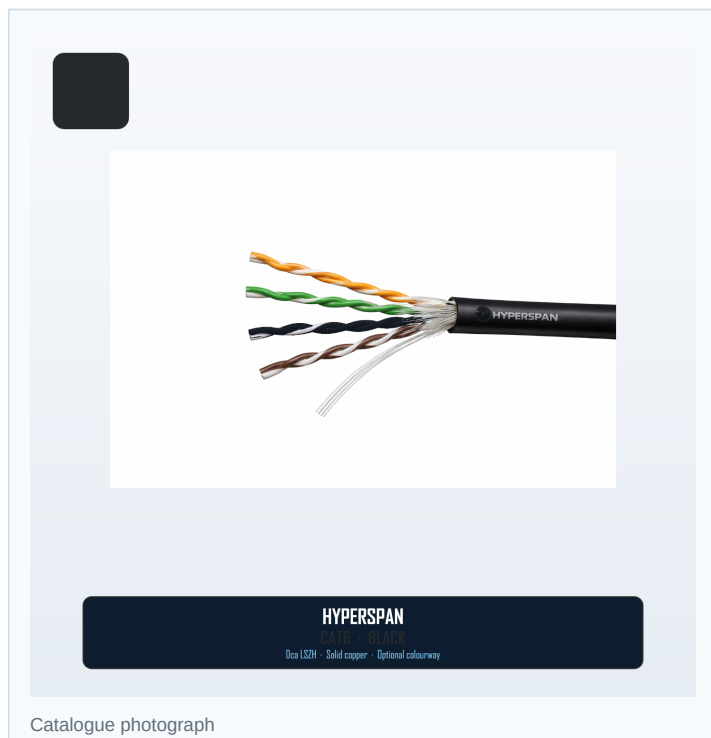


# Hyperspan XR Cat6 XR Internal LSZH U/UTP Cca-s1,d1,a1 500 m Black

HSP-CAT6-XR-INT-UUTP-CCA-S1-D1-A1-BLACK-500

XR extended-reach solid copper cable for this code.



Cat6 22 AWG

U/UTP

Cca-s1,d1,a1

Black

## PRODUCT OVERVIEW

Hyperspan XR Extended-Reach internal LSZH cable for fixed building installation. Solid 22 AWG Class 1 copper with polyethylene (PE) core insulation, U/UTP with X filler, supplied in a 500 m box. Category Cat6 U/UTP with X filler (cross separator). Declared reaction-to-fire performance: Cca-s1,d1,a1 under EN 13501-6 / EN 50575. Confirm the certified Declaration of Performance revision with Hyperspan Technical Support.

## KEY FEATURES

- Cat6 solid copper bulk cable
- U/UTP
- 22 AWG solid conductor
- LSZH, Black

## SPECIFIED WITH

XR faceplate jacks

XR patch leads

Rack patch panels

## NOTES

Hyperspan XR Cat6 XR Internal LSZH U/UTP Cca-s1,d1,a1 500 m Black. Solid copper bulk cable for fixed installation. Construction U/UTP. Sheath colour Black.

Declared reaction to fire Cca-s1,d1,a1. Declaration of Performance HSP-DOP-CAT6-XR-INT-UUTP-CCA-S1-D1-A1-BLACK-500.

Figures on this sheet are the published catalogue values for this code. Pair it with jacks, panels and patch leads of the same category.

| Characteristic | Value for this SKU                                                |
|----------------|-------------------------------------------------------------------|
| Product code   | HSP-CAT6-XR-INT-UUTP-CCA-S1-D1-A1-BLACK-500                       |
| Product name   | Hyperspan XR Cat6 XR Internal LSZH U/UTP Cca-s1,d1,a1 500 m Black |
| Cable type     | U/UTP                                                             |

# Hyperspan XR Cat6 XR Internal LSZH U/UTP Cca-s1,d1,a1 500 m Black

HSP-CAT6-XR-INT-UUTP-CCA-S1-D1-A1-BLACK-500

XR extended-reach solid copper cable for this code.

| Characteristic                | Value for this SKU                                                                                                                                        |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                      | Cat6                                                                                                                                                      |
| Technology                    | Hyperspan XR Extended-Reach                                                                                                                               |
| Conductor material            | Solid oxygen-free copper                                                                                                                                  |
| Conductor surface             | Bare                                                                                                                                                      |
| AWG size                      | 22                                                                                                                                                        |
| Conductor category            | Class 1 = solid                                                                                                                                           |
| Core insulation               | Polyethylene (PE)                                                                                                                                         |
| Total number of cores         | 8                                                                                                                                                         |
| Stranding element             | Pairs                                                                                                                                                     |
| Pair separator                | X filler (cross separator)                                                                                                                                |
| Overall screening             | None                                                                                                                                                      |
| Conductor screening           | None                                                                                                                                                      |
| Outer sheath material         | LSZH                                                                                                                                                      |
| Outer sheath colour           | Black                                                                                                                                                     |
| Reaction to fire (EN 13501-6) | Cca-s1,d1,a1                                                                                                                                              |
| CPR Euroclass                 | Cca                                                                                                                                                       |
| Smoke production              | s1                                                                                                                                                        |
| Flaming droplets / particles  | d1                                                                                                                                                        |
| Acidity / corrosivity         | a1                                                                                                                                                        |
| Packaging                     | 500 m Box                                                                                                                                                 |
| Intended application          | Commercial / general internal installations                                                                                                               |
| Warranty                      | 25-year system warranty available subject to registration, qualifying products, approved installation and testing, and the full Hyperspan warranty terms. |
| DoP reference                 | HSP-DOP-CAT6-XR-INT-UUTP-CCA-S1-D1-A1-BLACK-500                                                                                                           |

## APPLICABLE STANDARDS

| Characteristic   | Subject                                          |
|------------------|--------------------------------------------------|
| ISO/IEC 11801    | Generic cabling for customer premises            |
| EN 50173-1       | Generic cabling systems                          |
| ANSI/TIA-568.2-D | Balanced twisted-pair telecommunications cabling |
| EN 50575 + A1    | Cables for construction works, reaction to fire  |
| EN 13501-6       | Fire classification of cables                    |
| EN 50399         | Common fire test methods for cables              |
| EN 60332-1-2     | Test for vertical flame propagation              |
| EN 61034-2       | Smoke density of burning cables                  |
| EN 60754-2       | Acidity of gases from burned cable materials     |

# Hyperspan XR Cat6 XR Internal LSZH U/UTP Cca-s1,d1,a1 500 m Black

HSP-CAT6-XR-INT-UUTP-CCA-S1-D1-A1-BLACK-500

XR extended-reach solid copper cable for this code.

## XR channel evidence

Fluke LinkWare channel report with the cable type set to Cat 6 U/UTP. This page is the XR evidence sheet. Confirm the certified DoP revision before procurement.



### 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)

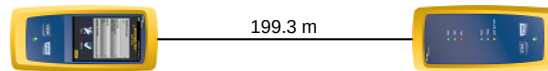
Main: Versiv  
S/N: 2437852  
Software Version: V7.0 Build 3  
Calibration Date: 08/26/2022  
Adapter: DSX-5000 (DSX-CHA004)  
S/N: 3658986

### Test Summary: PASS

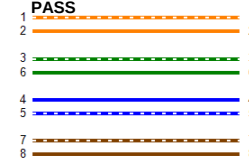
Remote: Versiv  
S/N: 2989284  
Software Version: V7.0 Build 3  
Calibration Date: 06/04/2015  
Adapter: DSX-5000R (DSX-CHA004)  
S/N: 2379261

### Cable Type: Cat 6 U/UTP

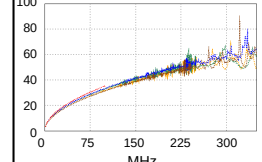
|                                        |                |       |
|----------------------------------------|----------------|-------|
| Length (m), Limit 200.0                | [Pair 7,8]     | 199.3 |
| Prop. Delay (ns), Limit 1080           | [Pair 4,5]     | 1033  |
| Delay Skew (ns), Limit 64              | [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  |



Wire Map (T568B)

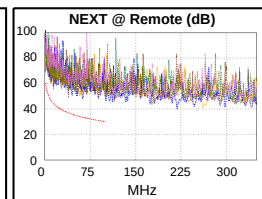
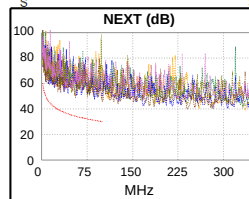


Insertion Loss (dB)

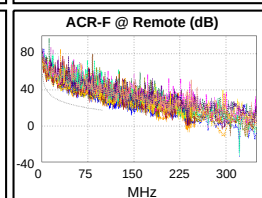
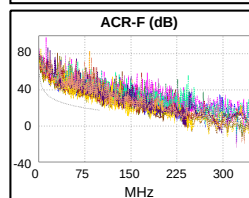


Worst Case Margin Worst Case Value

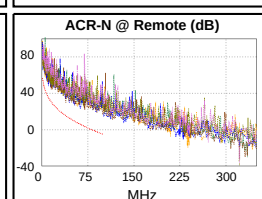
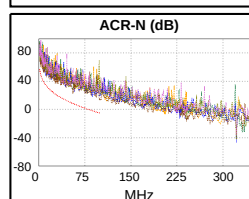
| PASS         | MAIN    | SR      | MAIN    | SR      |
|--------------|---------|---------|---------|---------|
| Worst Pair   | 3,6-4,5 | 1,2-7,8 | 3,6-4,5 | 1,2-7,8 |
| NEXT (dB)    | 12.1    | 12.8    | 16.2    | 14.8    |
| Freq. (MHz)  | 7.5     | 1.8     | 100.0   | 62.5    |
| Limit (dB)   | 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    |



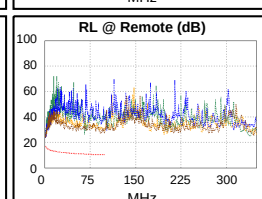
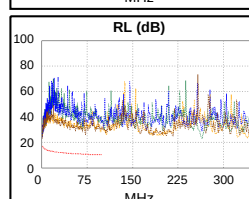
| PASS          | MAIN    | SR      | MAIN    | SR      |
|---------------|---------|---------|---------|---------|
| Worst Pair    | 7,8-1,2 | 3,6-4,5 | 4,5-3,6 | 3,6-4,5 |
| ACR-F (dB)    | 9.0     | 8.8     | 9.1     | 8.8     |
| Freq. (MHz)   | 91.5    | 99.3    | 99.3    | 99.3    |
| Limit (dB)    | 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 |



LinkWare™ PC Version 12.2

Project: ERR 500  
Site: Not Set  
Floor: Not Set  
Rack: Not Set  
Hyperspan\_custom2.flw

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

FLUKE networks