

# FURUTECH

## Finished Digital Cable

### ULTRA HIGH-SPEED HDMI™

V2.1 CABLE (8K/60p;4K/120p/48Gbps)

HDMI 8K V2.1 Ultra-High-Speed HDMI™ Cable Certified Lengths:  
(3.6m/12ft, 5.0M/16ft only)

※1.2m (3.9ft), 2.5m (8.2ft) tested to Furutech inhouse standards.

※3.6m (12ft), 5.0m (16ft) length is ATC 8K V2.1 certified.

※Main metal parts treated with Furutech's α(Alpha)-Process  
(2-Step Alpha Cryogenic and Demagnetizing Process)

- Supported Bandwidth: Superior 48Gbps (GB/sec) bandwidth delivering ULTRA HIGH SPEED HDMI™ CABLE 8K/60p
- Supported signal specifications: 8K/60p/48Gbps , 4K/120p/32.08Gbps , HDCP1.4/2.2/2.3, eARC/ARC, HDR10/HDR10+ , VRR/60Hz-240Hz(Refresh rate) , DSC, QMS, QFT, ALLM.
- Thick gold-plated contacts: HDMI A connector parts treated with Furutech's α(Alpha)-Process (2-Step Alpha Cryogenic and Demagnetizing Process) to deliver stable, optimized signal transmission.
- Thick layer of gold plating on contacts offer reliable and stable transmission with extreme performance.
- Double Layer Aluminum Foil Shields prevent Static and EMI: Exceeding stipulated specifications for Crosstalk and Noise, the HDMI-HF-X-NCF features double aluminum foil shielding for each twisted conductor.
- Main conductor: α (Alpha) conductor (26AWG Silver-plated α-OFC) for improved conductivity and stable transmission for extreme quality sound and picture reproduction.
- Antiresonance Sheath: passing UL/CL3 flame resistance testing and RoHS compliant, the very flexible PVC used in the HDMI-HF-X-NCF will reduce effects of electrical and mechanical resonance on signal transmission.
- To ensure stable ULTRA HIGH SPEED HDMI™ CABLE 8K/60p/48Gbps transmission, the HDMI-HF-X-NCF cable has purposely been constructed to have a rigid build.

### NCF Connector Shell ( Multi-material Hybrid Construction )

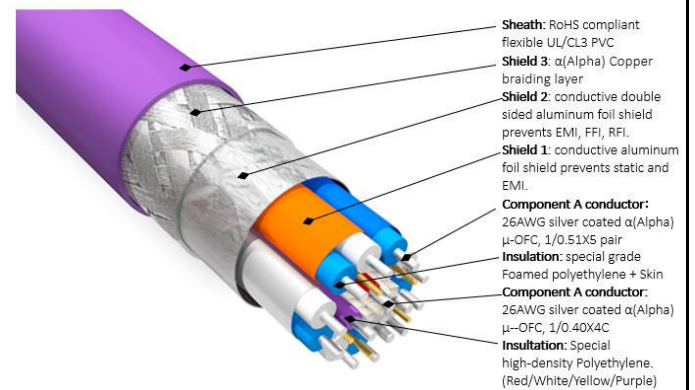
Incorporates Furutech's top anti-static resonance damping NCF material – eliminating electrical/mechanical vibration and static derived noise, increasing picture and sound resolution, boosting color vividness, and delivering blacker backgrounds. NCF features a special crystalline material that has two 'active' properties. First, it generates negative ions that eliminate static. Second, it converts thermal energy into far infrared. Furutech combines this remarkable material with nano-sized ceramic particles and carbon powder for their additional 'piezoelectric effect' damping properties. The resulting Nano Crystal<sup>2</sup> Formula is the ultimate electrical and mechanical damping material. Created by Furutech, it is found exclusively in Furutech products.

## HF-X NCF

<b>1.0M</b>	<b>(12,700.-)</b>	<b>3.0M</b>	<b>(23,600.-)</b>
<b>1.5M</b>	<b>(15,400.-)</b>	<b>3.6M</b>	<b>(26,900.-)</b>
<b>2.0M</b>	<b>(18,200.-)</b>	<b>5.0M</b>	<b>(34,600.-)</b>
<b>2.5M</b>	<b>(20,800.-)</b>		



Cable Construction and Materials:



### GT2 USB

<b>GT2 0.6 m.</b>	<b>6,450.-</b>
<b>GT2 1.2 m.</b>	<b>7,550.-</b>
<b>GT2 1.8 m.</b>	<b>8,750.-</b>
<b>GT2 5.0 m.</b>	<b>15,050.-</b>

### mini B

<b>GT2 0.6 m.</b>	<b>6,450.-</b>
<b>GT2 3.6 m.</b>	<b>12,300.-</b>
<b>GT2 5.0 m.</b>	<b>15,050.-</b>

### Furutech GT2 USB 2.0 Cables

#### Features

- Main conductor: Silver-plated α (Alpha) OCC Conductors
- Main Insulation: Special-grade high-density polyethylene
- 3-layer shield construction for improved noise insulation
- Connectors: Furutech-engineered 24k gold-plated USB series Connectors
- The best damping and insulation materials for improved frequency extension and tonal balance
- Cable Types
  - o GT2 USB-B (Type A-B) / USB-mini B (Type A-mini B)
- Cable Lengths
  - o 0.6m (2ft) / 1.2m (4ft) / 1.8M (6ft) / 3.6m (12ft) / 5.0m (16.5ft)
  - o 7.0m (23ft) and 10.0m (33ft) by request



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### Features:

**NCF strain relief (Multi-material Hybrid Construction)**  
Incorporates Furutech's top anti-static resonance damping NCF material – eliminating electrical/mechanical vibration and static derived noise, increasing picture and sound resolution, boosting color vividness, and delivering blacker backgrounds. NCF features a special crystalline material that has two 'active' properties. First, it generates negative ions that eliminate static. Second, it converts thermal energy into far infrared. Furutech combines this remarkable material with nano-sized ceramic particles and carbon powder for their additional 'piezoelectric effect' damping properties. The resulting Nano Crystal<sup>2</sup> Formula is the ultimate electrical and mechanical damping material. Created by Furutech, it is found exclusively in Furutech products.

### Special photoelectric conversion chips

### Noise Resistant

The HDMI-HF-A-NCF features the latest in optical transmission technology with its connectors incorporating special photoelectric conversion chips to deliver ultimate balanced signal amplification. Even over distances that are susceptible to noise and signal degradation, the HDMI-HF-A-NCF will deliver stable and near lossless 8K signal transmission (Power not required– Plug'n Play).

### HF-A-NCF optical fiber

The HF-A-NCF features OM3 "optical multi-mode" optical fiber, which has higher transmission speed and bandwidth than OM1 and OM2. It also has a bending diameter of OM3 is 20mm, making it easier to use in environments where fiber installation is difficult or in complex piping. This extreme quality HF-A-NCF AOC cable (Optic Fiber and  $\alpha$ -Conductor Hybrid Cable) is produced in a micro-precision ISO 7 (Class 10,000) dust-free factory.

\*Supported Bandwidth: Superior 48Gbps (GB/sec) bandwidth delivering ULTRA HIGH SPEED HDMI™ CABLE 8K/60p

\*Supported signal specifications: 8K/60p/48Gbps, 4K/120p/32.08Gbps, HDCP1.4/2.2/2.3, eARC/ARC, HDR10/HDR10+, VRR/60Hz–240Hz(Refresh rate), DSC, QMS, QFT, ALLM.

\*Aluminum alloy connector with thick gold-plated contacts:

Zinc and aluminum alloy metal connector covers - textured to reduce the influence of vibration. HDMI A connector parts treated with Furutech's

$\alpha$ (Alpha)-Process (2-Step Alpha Cryogenic and Demagnetizing Process) to deliver stable, optimized signal transmission. Thick layer of gold plating on contacts with minimal magnetism offer reliable and stable transmission with extreme performance.

\*Double Layer Aluminum Foil Shields prevent Static and EMI.

\*Exceeding stipulated specifications for Crosstalk and Noise, the HDMI-HF-A-NCF features double

aluminum foil shielding for each twisted conductor.

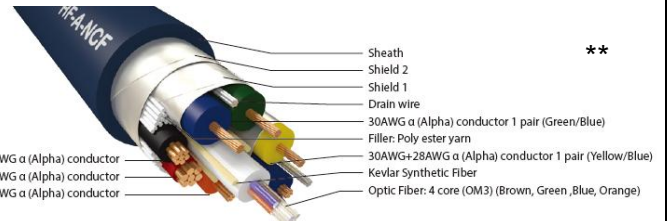
\*Featuring tension resistant Kevlar Synthetic Fiber to withstand external stresses.

\*Antiresonance Sheath: passing UL/CL3 flame resistance testing and RoHS compliant, the very flexible PVC used in the HDMI-HF-A-NCF will reduce effects of electrical and mechanical resonance on signal transmission.

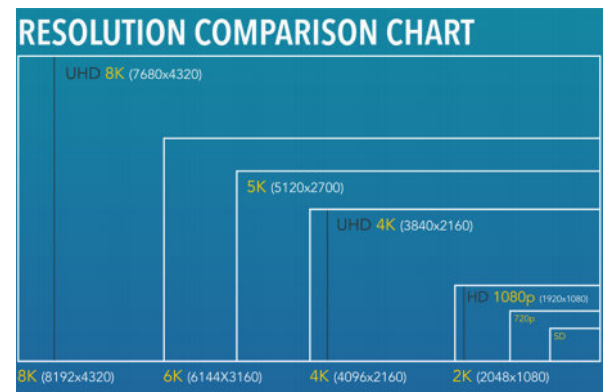
\*The HDMI-HF-A-NCF cable has been purposely limited to a diameter of 4.7mm to produce an extremely light and flexible cable that delivers the highest possible performance.

## HF-A-NCF

1.5M	17,900.-
3.0M	23,100.-
5.0M	28,600.-
7.5M	35,500.-
10.0M	40,700.-
15.0M	51,000.-
20.0M	61,400.-



### Resolution Comparison Chart



- \*\* Conductor:  $\alpha$  (Alpha) conductor treat with the  $\alpha$ (Alpha)-Process (2-Step Alpha Cryogenic and Demagnetizing Process)  
Insulation: Special high-density Polyethylene (24AWG  $\alpha$ (Alpha) conductor) and special LSZH for FIBER and others  $\alpha$ (Alpha) conductors are FOAM-PE-SKIN.  
Shield 1: Conductive aluminum foil shield prevents static and EMI.  
Shield 2: Conductive aluminum foil shield prevents EMI, FFI, RFI.  
Sheath: RoHS compliant and fire-resistant UL/CL3 grade flexible PVC.

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0.6m..	8,800.-
1.2m..	10,300.-
1.8m..	11,800.-
2.5m..	13,500.-
3.6m..	16,300.-
5.0m..	19,750.-
7.0m..	25,950.-
10.0m..	32,150.-

### FEATURES

- The LAN-8 NCF is a beautifully engineered and built Category 8 S/FTP twisted pair cable for Ethernet and other high-speed signal transfer.
- NCF Connector Shell (Multi-material hybrid construction) - NCF features a special crystalline material that has two 'active' properties. First, it generates negative ions that eliminate static. Second, it converts thermal energy into far infrared. Furutech combines this remarkable material with nano-sized ceramic particles and carbon powder for their additional 'piezoelectric effect' damping properties. The resulting Nano Crystal<sup>2</sup> Formula is the ultimate electrical and mechanical damping material. Created by Furutech, it is found exclusively in Furutech products. NCF delivers improvements in the depth and focus of the sound stage, harmonics and tonal balance with NCF. Low frequencies are cleaner, with a greater sense of definition made possible by a lowered noise floor.
- Category 8 is backward compatible with Categories 7 and 6. It also features improved specifications for crosstalk and system noise than Category 7 with added shielding for each individual wire pair and the cable as a whole. Besides the additional shielding, the LAN-8 NCF features twisted pairs with the number of twists per unit length increasing RF shielding and protecting from crosstalk.
- Category 8 cable allows 40 Gigabit Ethernet and frequencies of up to 2000 MHz (Category 7 X 3.3). Noise interference resistant, providing a fast and stable network environment.
- Main conductor wire: 24 AWG (19/0.12) Silver plated  $\alpha$  (Alpha) OCC conductor for minimal transmission loss.
- RJ45(8P8C) Connector:  $\alpha$  (Alpha) non-magnetic conductor with deep 24k gold plating and 24k gold-plated copper alloy body with minimal magnetic properties preventing signal degradation.
- 3 Layered Shielding with superior noise isolation aluminum foil and copper braiding exceeding shielding effects of conventional cables. Effectively isolates noise dramatically improving sound reproduction.
- The best damping and insulation materials for improved frequency extension and tonal balance
- Jacket: UL/CL3 approved flammability grade; RoHS Compliant Flexible PVC (Black) and high-quality nylon yarn braided sleeve single effect preventing internal resonance and exhibiting improved damping performance.
- OD: 7.0 $\pm$ 0.1mm approx.
- Production Lengths: 0.6M/1.2M/1.8M/2.5M/3.6M/5M and 7.5M/10M by request.

### SPECIFICATIONS

$\alpha$  (Alpha) conductor is the fine OCC conductor wires treated with the  $\alpha$  (Alpha) process.  
 Main conductor: 24 AWG Silver plated  $\alpha$  (Alpha) OCC conductor  
 Insulation: Special Foamed PE OD.: 1.35 $\pm$ 0.05mm, 4 Twisted Pairs  
 Blue/White; Orange/White; Green/White; Brown/White  
 Shield 1: AL foil Conductive layer to the outside  
 Shield 2: AL foil Double-sided conductive  
 Shield 3:  $\alpha$  (Alpha) Pure copper wire (16/10/0.10) braiding layer



# FURUTECH

## Finished Digital Cable



**LAN-8**  
**NCF Plus**



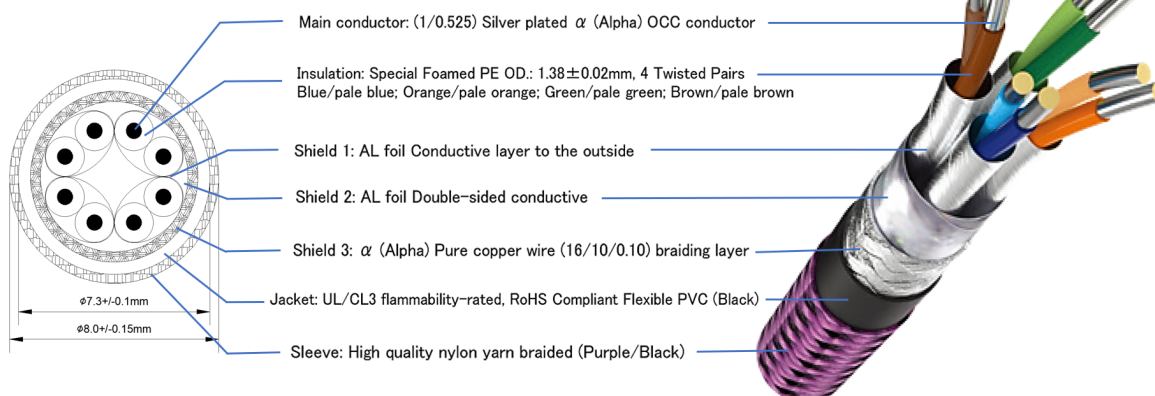
0.6m..	10,600.-
1.2m..	12,400.-
1.8m..	14,200.-
2.5m..	16,300.-
3.6m..	19,500.-
5.0m..	23,700.-
7.0m..	31,200.-
10.0m..	38,500.-

**Ultra high speed transmission cable with speeds up to 40Gbps 2000MHz 24AWG S/FTP**  
**Triple Shielding, Deep 24k gold plated RJ45 connector with NCF shell**  
**Category 8 compatible Ethernet LAN cable.**

### Features:

- The LAN-8 NCF Plus is a beautifully engineered and built Category 8 S/FTP twisted pair cable for Ethernet and other high-speed signal transfer.
  - NCF Connector Shell (Multi-material hybrid construction) NCF features a special crystalline material that has two 'active' properties. First, it generates negative ions that eliminate static. Second, it converts thermal energy into far infrared. Furutech combines this remarkable material with nano-sized ceramic particles and carbon powder for their additional 'piezoelectric effect' damping properties. The resulting Nano Crystal<sup>2</sup> Formula is the ultimate electrical and mechanical damping material. Created by Furutech, it is found exclusively in Furutech products. NCF delivers improvements in the depth and focus of the sound stage, harmonics and tonal balance with NCF. Low frequencies are cleaner, with a greater sense of definition made possible by a lowered noise floor.
  - Category 8 is backward compatible with Categories 7 and 6. It also features improved specifications for crosstalk and system noise than Category 7 with added shielding for each individual wire pair and the cable as a whole. Besides the additional shielding, the LAN-8 NCF Plus features twisted pairs with the number of twists per unit length increasing RF shielding and protecting from crosstalk.
  - Category 8 cable allows 40 Gigabit Ethernet and frequencies of up to 2000 MHz (Category 7 X 3.3). Noise interference resistant, providing a fast and stable network environment.
  - Main conductor wire: 24 AWG (1/0.525) Silver plated  $\alpha$  (Alpha) OCC conductor for minimal transmission loss.
  - RJ45(8P8C) Connector:  $\alpha$  (Alpha) non-magnetic conductor with deep 24k gold plating and 24k gold-plated copper alloy body with minimal magnetic properties preventing signal degradation.
  - 3 Layered Shielding with superior noise isolation aluminum foil and copper braiding exceeding shielding effects of conventional cables. Effectively isolates noise dramatically improving sound reproduction.
  - The best damping and insulation materials for improved frequency extension and tonal balance.
  - Jacket: UL/CL3 flammability-rated, RoHS-compliant flexible black PVC with a high-quality nylon yarn braided sleeve. This construction effectively reduces internal resonance and enhances damping performance.
- Outer Diameter: Approximately  $8.0 \pm 0.15$  mm.
- Production Lengths: 0.6M/1.2M/1.8M/2.5M/3.6M/5M and 7.5M/10M by request.

### Specifications : Construction and Material of Cable



# FURUTECH

## Furutech's new flagship Digital Cable



RCA 187,900.-/ 1.2m



XLR 192,900.-/1.2m

### Project V1-D

#### RATING

Alpha OCC-DUCC / Silver-Coated α (Alpha) OCC Conductors

Featuring NCF & Refined carbon fiber composite materials crafted through a specialized forging process.

Project V1-D-XLR (1.2M)

Project V1-D-RCA (1.2M)

#### SPECIFICATIONS

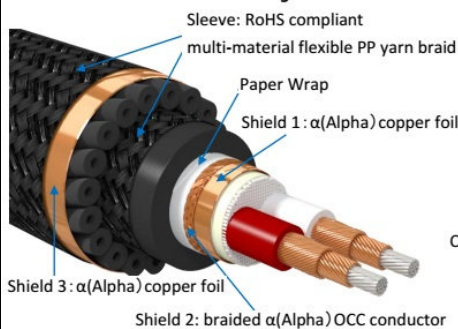
Specially designed Sleeve:

Designed to limit resonance and stress on the cable while remaining flexible, the special sleeve features high-grade soft damping polypropylene and cross weaved hard fiber. (0.02mm soft polypropylene / 0.2mm hard polypropylene)

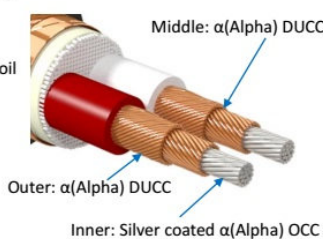


#### Balanced Interconnect Cable

##### Cable construction image



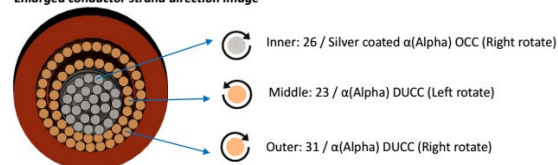
##### Conductor material explanation



##### Cross Sectional View



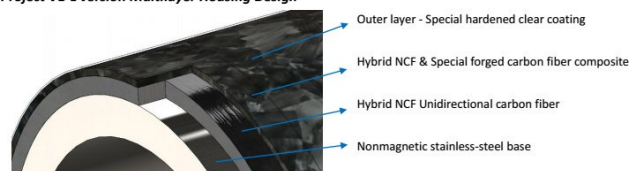
##### Enlarged conductor strand direction image



Project V1-L version series connectors shown below.



#### Project V1-L version Multilayer Housing Design



##### ※Special feature:

Carefully engineered cable damping ring improves grip and reduces mechanical and electrically induced distortion.



- Multi-material Hybrid conductor with special 3 tier concentric design.
- Specially designed Sleeve.
- Sound enhancing, resonance damping, double sleeve, 3 shield design.
- Insulation : Audio-grade Polypropylene.
- RoHS complaint Nano-ceramic and carbon powder damping material.
- cable outer diameter: 14.0mm
- Length : 1.2M Approx.