

# *The GIGA-STAR Solution*

**Category 6, 100 Ohm, 250 MHz Data Transmission Cables**



[www.teldor.com](http://www.teldor.com)

# The GIGA-STAR Solution

## CAT 6 - GIGA-STAR horizontal Unshielded Twisted Pairs (UTP) cables

Teldor P/N	Teldor Brand Name	Construction	Flame Test	Jacket Material	Cable Diameter [mm]	Cable Weight [kg/km]	NVP (%)
750AZ04xxx	GIGA-STAR (UTP CAT 6)	4 UTP Pairs 23 AWG	IEC-60331.1 VW-1	PVC	6.7	47.5	67
750BZ04xxx	GIGA-STAR (UTP CAT 6)	4 UTP Pairs 23 AWG	IEC-60331.1 VW-1	FR-LSZH (HFFR)	6.7	44	67
750CZ08xxx	GIGA-STAR FIG-8	8 UTP Pairs 23 AWG Fig-8 (Siamese) <b>double jacket</b>	IEC-60331.1 VW-1	PVC	8.1x16.3	126	67
750DZ08xxx	GIGA-STAR FIG-8	8 UTP Pairs 23 AWG Fig-8 (Siamese) <b>double jacket</b>	IEC-60331.1 VW-1	FR-LSZH (HFFR)	8.1x16.3	126	67
750DZA8xxx	GIGA-STAR FIG-8	8 UTP Pairs 23 AWG Fig-8 (Siamese) <b>single jacket</b>	IEC-60331.1 VW-1	FR-LSZH (HFFR)	6.7x13.9	89	67

The values are nominal  
 "xxx" - Jacket color code  
 Conductors insulation - PE compound

## CAT 6 - STARPATCH - (Working Area) Unshielded Twisted Pairs (UTP) patch cables

Teldor P/N	Teldor Brand Name	Construction	Flame Test	Jacket Material	Cable Diameter [mm]	Cable Weight [kg/km]	NVP (%)
720KZ04xxx	STARPATCH	4 UTP Pairs 24 AWG	IEC-60331.1 VW-1	PVC	6.6	45	67
720KS05xxx	STARPATCH +	4 UTP Pairs 24 AWG + 1 control wire 26 AWG	IEC-60331.1 VW-1	PVC	6.6	48.5	67

The values are nominal  
 "xxx" - Jacket color code  
 Conductors insulation - PE compound

## CAT 6 - horizontal Shielded Twisted Pairs (STP) cables

Teldor P/N	Cable Name	Construction	Overall Shield Type	Flame Test	Jacket Material	Cable Diameter [mm]	Cable Weight [kg/km]	NVP (%)
8301204xxx	STP CAT 6	4 STP Pairs 23 AWG	None	IEC-60331.1 VW-1	PVC	7.5	55	78
8300204xxx	STP CAT 6	4 STP Pairs 23 AWG	None	IEC-60331.1 VW-1	FR-LSZH (HFFR)	7.5	53	78
8301804xxx	STP CAT 6 FIG-8	8 STP Pairs 23 AWG Fig-8 (Siamese)	None	IEC-60331.1 VW-1	PVC	7.5x15.1	108	78
8300804xxx	STP CAT 6 FIG-8	8 STP Pairs 23 AWG Fig-8 (Siamese)	None	IEC-60331.1 VW-1	FR-LSZH (HFFR)	7.5x15.1	107	78

The values are nominal  
 "xxx" - Jacket color code  
 Conductors insulation - PE compound

## CAT 6 - horizontal overall Shielded Screened Twisted Pairs (S/STP) & (F/STP) cables

Teldor P/N	TELDOR BRAND NAME	Construction	Overall Shield Type	Flame Test	Jacket Material	Cable Diameter [mm]	Cable Weight [kg/km]	NVP (%)
9828504xxx	MEGADOR	4 STP Pairs 22 AWG (S/STP)	Braid	IEC-60331.1 VW-1	PVC	8.4	78	78
9828554xxx	MEGADOR	4 STP Pairs 22 AWG (S/STP)	Braid	IEC-60331.1 VW-1	FR-LSZH (HFFR)	8.4	74	78
9828604xxx	MEGADOR JUNIOR	4 STP Pairs 23 AWG (S/STP)	Braid	IEC-60331.1 VW-1	PVC	8.2	70	78
9828654xxx	MEGADOR JUNIOR	4 STP Pairs 23 AWG (S/STP)	Braid	IEC-60331.1 VW-1	FR-LSZH (HFFR)	8.2	67	78
9827504xxx	MEGAFOIL	4 STP Pairs 22 AWG (F/STP)	Aluminum foil	IEC-60331.1 VW-1	PVC	8.4	72	75
9827554xxx	MEGAFOIL	4 STP Pairs 22 AWG (F/STP)	Aluminum foil	IEC-60331.1 VW-1	FR-LSZH (HFFR)	8.4	72	75
9827604xxx	MEGAFOIL JUNIOR	4 STP Pairs 23 AWG (F/STP)	Aluminum foil	IEC-60331.1 VW-1	PVC	7	55	75
9827654xxx	MEGAFOIL JUNIOR	4 STP Pairs 23 AWG (F/STP)	Aluminum foil	IEC-60331.1 VW-1	FR-LSZH (HFFR)	7	54	75
9828582xxx	MEGADOR FIG-8	8 STP Pairs 22 AWG (S/STP) FIG-8 (Siamese)	Braid	IEC-60331.1 VW-1	PVC	8.4x17	149	78
9828592xxx	MEGADOR FIG-8	8 STP Pairs 22 AWG (S/STP) FIG-8 (Siamese)	Braid	IEC-60331.1 VW-1	FR-LSZH (HFFR)	8.4x17	151	78
9828682xxx	MEGADOR JUNIOR FIG-8	8 STP Pairs 23 AWG (S/STP) FIG-8 (Siamese)	Braid	IEC-60331.1 VW-1	PVC	8.2x16.9	140	78
9828692xxx	MEGADOR JUNIOR FIG-8	8 STP Pairs 23 AWG (S/STP) FIG-8 (Siamese)	Braid	IEC-60331.1 VW-1	FR-LSZH (HFFR)	8.2x16.9	137	78
9827582xxx	MEGAFOIL FIG-8	8 STP Pairs 22 AWG (F/STP) FIG-8 (Siamese)	Aluminum foil	IEC-60331.1 VW-1	PVC	8.4x17	144	75
9827592xxx	MEGAFOIL FIG-8	8 STP Pairs 22 AWG (F/STP) FIG-8 (Siamese)	Aluminum foil	IEC-60331.1 VW-1	FR-LSZH (HFFR)	8.4x17	144	75
9827682xxx	MEGAFOIL JUNIOR FIG-8	8 STP Pairs 23 AWG (F/STP) FIG-8 (Siamese)	Aluminum foil	IEC-60331.1 VW-1	PVC	6.8x13.7	104	75
9827692xxx	MEGAFOIL JUNIOR FIG-8	8 STP Pairs 23 AWG (F/STP) FIG-8 (Siamese)	Aluminum foil	IEC-60331.1 VW-1	FR-LSZH (HFFR)	6.8x13.7	104	75

The values are nominal  
 "xxx" - Jacket color code  
 Conductors insulation - PE compound

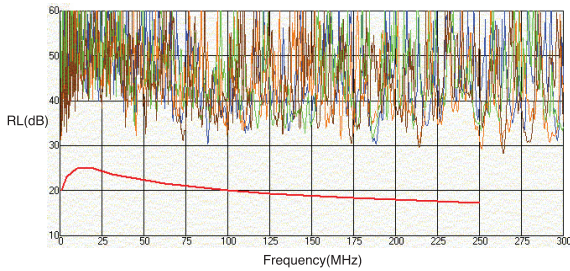
# The *GIGA-STAR* Solution

## CAT 6 - patch overall Shielded Screened Twisted Pairs (S/STP) cables

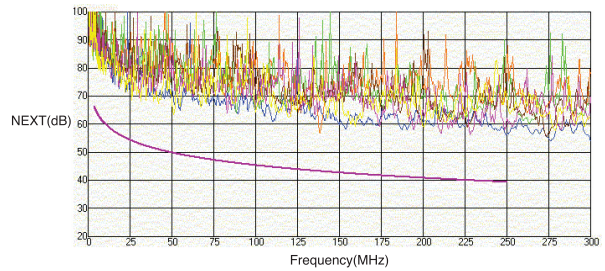
Teldor P/N	Teldor Brand Name	Construction	Overall Shield Type	Flame Test	Jacket Material	Cable Diameter [mm]	Cable Weight [kg/km]	NVP (%)
9828026xxx	MEGAPATCH	4 STP Pairs 26 AWG (S/STP)	Braid	IEC-60331.1 VW-1	PVC	6.0	43	75
9828025xxx	MEGAPATCH	4 STP Pairs 26 AWG (S/STP)	Braid	IEC-60331.1 VW-1	FR-LSZH (HFFR)	6.0	43	75

The values are nominal  
 "xxx" - Jacket color code  
 Conductors insulation - PE compound

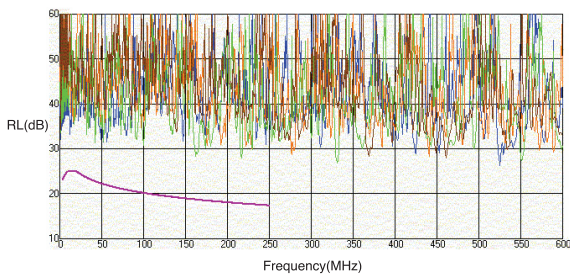
*GIGA-STAR CAT 6 UTP Horizontal Typical RL*



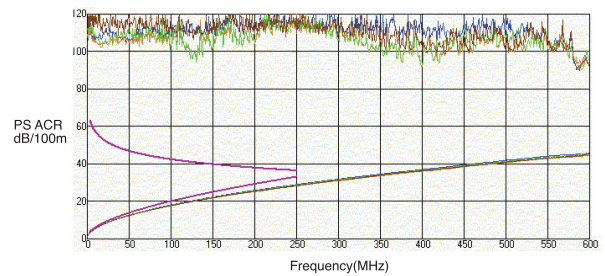
*GIGA-STAR CAT 6 UTP Horizontal Typical NEXT*



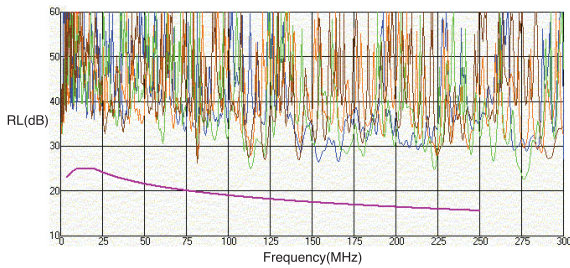
*GIGA-STAR CAT 6 STP Horizontal Typical RL*



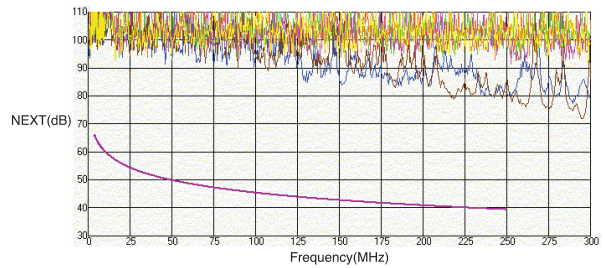
*GIGA-STAR STP CAT 6 Typical ACR*



*MEGA-PATCH CAT 6 S/STP Typical RL*



*MEGA-PATCH CAT 6 S/STP Typical NEXT*



### Jacket Options

PVC = Poly-Vinyl Chloride

HFFR = Halogen-Free, Flame Retardant (FR-LSZH)

### Shielding Options

UTP = Unshielded Twisted Pair

STP = Shielded Twisted Pair

S/STP = Each Pair Individually Foil Shielded + Overall Braid

F/STP = Individual + Overall Foil Shielded

Transmission performance	Exceeds Cat5e and Cat6 of: IEC 61156-5, IEC 61156-6, EIA/TIA 568-B.2, EIA/TIA 568-B.2-1
Resistance Unbalance	Max. 2%
Characteristic Impedance	100 ±15 Ohm, 1 – 250 MHz
Capacitance Unbalance	Max. 1.5 pF/m



*TELDOR... The Best Connection™*



# What is The GIGA-STAR Solution?

The **GIGA-STAR Solution** is a complete line of data-transmission cables, designed for state-of-the-art Cat6 and Cat5e CLASS D and CLASS E cabling systems.

**GIGA-STAR** cables are tested up to 300 MHz, and are fully compatible with the latest ISO/IEC 11801 2nd Edition (FCD), IEC 61156-5, IEC 61156-6, TIA/EIA 568 –B.2 and TIA/EIA-568-B.2-1.

The **GIGA-STAR Solution** is comprised of the following three groups:

- UTP cables, where high NEXT and FEXT loss values are achieved by mechanical pair separation.
- STP cables, where high NEXT and FEXT loss values are achieved by individual pair shielding.
- S/STP cables, where an additional overall braid shield provides outstanding EMC performance.

Our customers now have the option of selecting a true Category 6 cable that meets all the transmission parameters required to support the latest applications with 3 different levels of EMC performance:

- UTP cables: 60 dB coupling attenuation
- STP cables: 80 dB coupling attenuation
- S/STP cables: 90 dB coupling attenuation

All **GIGA-STAR** cables feature high values of PS-ACR and PS-ELFEXT, and a stable 100 Ohm characteristic impedance ensuring high Return-Loss, making *The*

**GIGA-STAR Solution** ideal for GIGABIT-Ethernet applications. All cables are available with a PVC or Flame Retardant Low-Smoke Zero-Halogen (FR-LSZH \ HFFR) jacket and in single or "Siamese twin" (FIG-8) constructions.

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## **TELDOR Wires & Cables Ltd.,**

TELDOR Wires & Cables Ltd. Is a leading ISO-9001:2000 certified manufacturer of Hi-Tech, sophisticated cables.

### **Our product range includes:**

Audio frequency & microphone cables, High frequency coaxial, triaxial and twinaxial cables, Instrument & thermocouple extension cables, BUS cables, Power cables, Telecom and switchboard cables for both digital and analog applications, TelSec cables for perimeter intrusion detection and security applications, Digicom cables for ISDN and Digital Telecommunication Systems and Fiber Optic cables.

### **TELDOR'S LAN & data transmission cable range includes:**

The BASIC-Solution: 100 MHz Category 5 & 5E Cables  
The GIGA-STAR Solution: 250 MHz Category 6 Cables  
The GIGA-DORSolution: 600 MHz Category 7 Cables

The HI-GIGA Solution: 900 MHz Cables

The TERA-DOR Solution: 1200 MHz Cables

The FLEX-Solution: Patch, Jumpers and Work-area Cables.

The OPTILAN-Solution: Fiber Optic Cables for the Local Area Network

Please call us for more information on other products from our wide range of wires & cables.

**TELDOR... The Best Connection™**



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