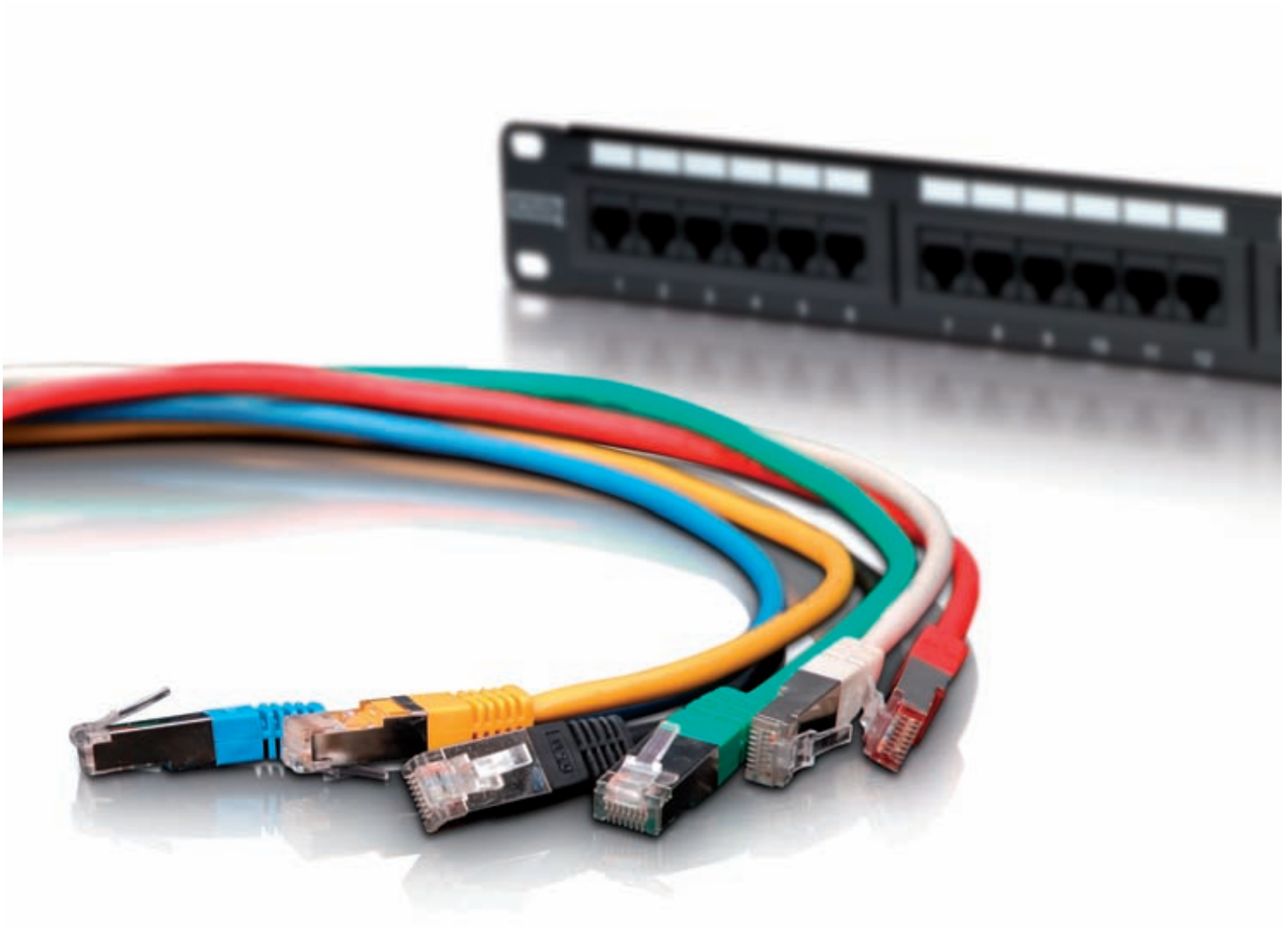
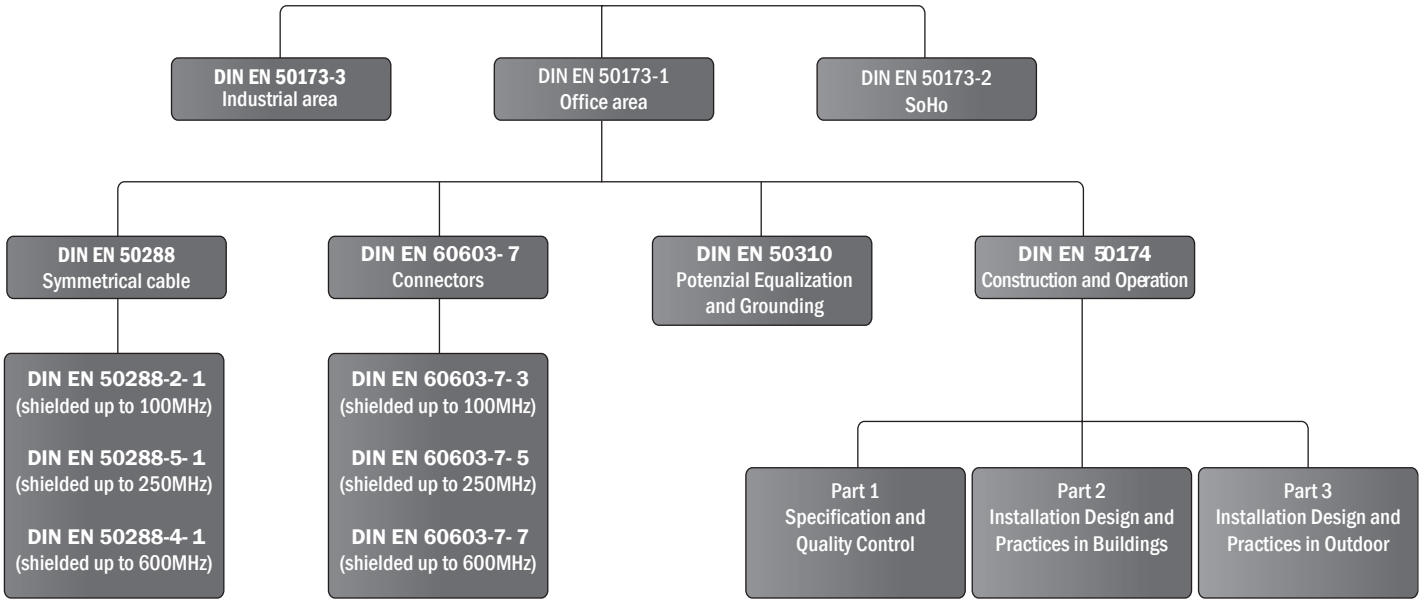
Copper components



The structured DIGITUS® cabling system

Different applications, data, speech and video-multimedia ran on different transmission paths in past. This meant multiple installations to do justice to the requirements. The development up to structured cabling has created uniform cabling in the building that concentrates the various applications into one system. This cabling system must be independent from the manufacturer and the system so that the various applications. Categories and class can be met at any time.



Cabling standards
Various standards have been set down in international committees to be independent from manufacturer and system. These divide into various areas. The international range of validity is set down in ISI/IEC 11801 and in the national German standard of DIN EN 50173.

The standard series of EN 50173 is divided into five areas for various applications and covers „application-neutral communication cablings for information technology".

- EN 50173-1 General requirements
- EN 50173-2 Office buildings
- EN 50173-3 Industrially used buildings
- EN 50173-4 Private residential units
- EN 50173-5 Computing centres

There is also a difference in the individual components such as cables and connection technology and also in the installation of these components.

The individual components are classified into the following categories:

- Category 5 up to 100 MHz
- Category 6 up to 250 MHz
- Category 6_A up to 500 MHz
- Category 7 up to 600 MHz
- Category 7_A up to 1000 MHz

A distinction is drawn between installed components according to transmission classes

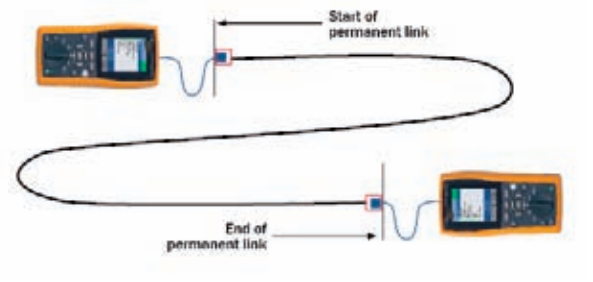
- Class D up to 100 MHz
- Class E up to 250 MHz
- Class E_A up to 500 MHz
- Class F up to 600 MHz
- Class F_A up to 1000 MHz

Certification and checking of the limiting values for the measurement technology of the installed transmission routes.

A distinction is drawn between two models for the transmission routes for the cabling.

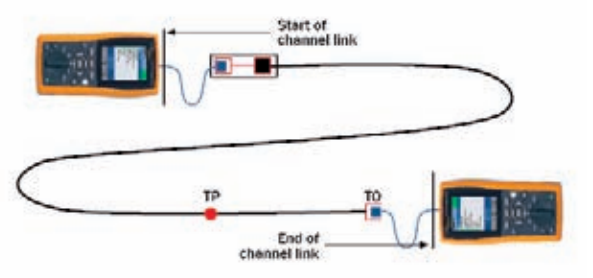
- **Permanent Link**

which covers the laid installation cable and also the patch panel permanently connected to the end of the cable and the junction box.



- **Channel Link**

Where the patch cable also used in the patch panel and the junction box can also be measured together with the components of the Permanent Link.



Defined electrical limiting values give a clear picture of the quality of the installed system.

- Line length
- With return flow attenuation
- Max. attenuation
- Min. near end cross talk attenuation NEXT
- Min, OSNEXT
- Min. ACR
- Min. PSACR
- Min. ELFEXT
- Min. PSELFEXT
- Max. DC loop resistance
- Max. run time
- Max. run time difference

- The return flow attenuation is the measure for outstanding reflection of the transmission signal which is created by sud den increases in impedance in the cable run (Return Loss).
- The attenuation shows the lost part of the signal over the cable run (Attenuation).
- The near end cross talk attenuation is used as a measure of cross talk at the near end of the cable run. Each pair of strands will be measured at the other pairs respectively (Near end crosstalk NEXT).
- The far end cross talk attenuation is measured as the same way as NEXT (Far end crosstalk FEXT).
- ACR measures the ratio between cross talk and attenuation.
- (Attenuation to crosstalk ratio ACR=NEXT - attenuation).
- Equal Level FEXT is the extent of crosstalk at the far end where the pair attenuation is deducted from this (ELFEXT).
- Run time of the signal over the transmission distance
- (Propagation delay).
- Run time differences arise with simultaneous transmission of a signal to various pairs (delay skew).
- Power Sum is the total of the faults which are coupled in from the remaining pairs to the fourth pair (PS).
- PSNEXT = Power Sum NEXT
- PSACR = Power Sum ACR
- PSELFEXT = Power Sum ELFEXT

Structure of the cabling system in accordance with EN 50173
Cabling takes place on different levels, not only storeys/floors are cabled but also different floors are cabled with each other and buildings are also cabled over outside surfaces.
There different areas are defined for these applications.

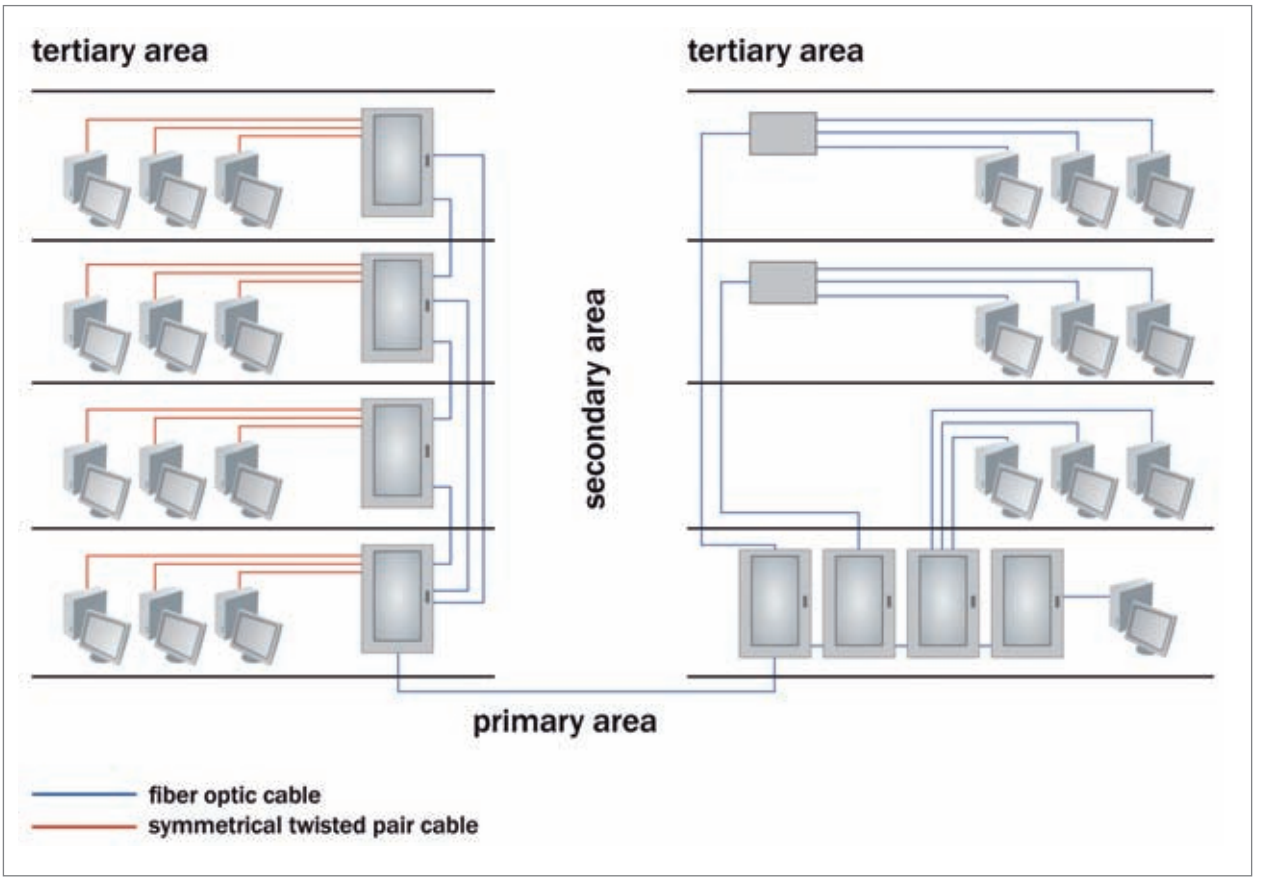
- Primary cabling — outside site areas, campus backbone
- Secondary cabling — building area, building backbone
- Tertiary cabling, — cabling in floors, horizontal cabling

Basic standard specifications have been laid down in these cabling areas, as far as the execution of the entire cabling system is concerned.

At least one sub-distribution panel is planned for an office space of 1000m2. Such a sub distribution panel can also serve several floors in smaller buildings. The jacks should be distributed over the entire useable area where there have to be at least 2 connections for each workplace. One of the connections should be at least made with symmetric copper cable, the other one can be connected by using LWL cable.

The following minimum and maximum requirements are imposed on the lengths of cable for cabling in floors. The distance between the user end device and the distribution components, including all the patch cable used must not exceed 100 m.

Cabling areas



The length of the fixed cable between the jack and the patch panel is set at a maximum of 90 m here.

The maximum distance in the Permanent Link can also be shorter, since a consolidation point integrated into the cabling runs also has effects on the technical transmission values of the laid cable. Patch cables between jack and end device should not exceed a maximum length of 20 m: the length of patch cable used in the patch field at the floor sub-distribution cable has a maximum length of 5 m. Consolidation points which are used should be placed at least 15 m from the floor sub-distribution panel since plug-in connections used in the immediate vicinity can exert influences on various transmission parameters. The types of cable used in cabling on floors consist of 100 Ohm 4 paired twisted pair cables and 50/125µ multi-mode glass fiber cables.

The maximum cable length of the transmission run should be 2000m for the site and building cabling of the secondary area. The previously mentioned cable types are also preferred here. The often larger distances between buildings also offer an area of use for 07/15µ mono-mode glass fiber cable.

Connection technology for structured cabling
The cable which has been used for laying can be described with the following, different characteristics.

- Copper conductor consisting of solid copper for permanent installation between sub-distribution panels on floors and between distribution panels and jacks.
- Copper conductor as flexible conductor wire for use in the manufacture of patch cables.
- Details of the diameter and/or cross section in mm, mm2 or AWG (American Wire Gauge). The larger the wire diameter, the smaller the attenuation.
  This section shows the following examples:
  AWG 24/1 = conductor consisting of solid wire with 0.511 mm conductor diameter
  AWG 26/7 = conductor consists of 7 wires with 0.48 mm conductor diameter
- Strands are twisted into pairs and provided with a colour code in the conductor insulation. The colour code is done according to EIA/TIA 568 / IEC 708-1 with the wiring:

  Pair 1 = wire 1 in white/blue, wire 2 in blue
  Pair 2 = wire 1 in white / orange, wire 2 in orange
  Pair 3 = wire 1 in white / green, wire 2 in green
  Pair 4 = wire 1 in white / brown, wire 2 in brown

- The screening is used to improve transmission safety. In accordance with the valid standard, it guarantees the limita tion of electromagnetic disturbances and also the immunity of the network against disturbances.

UTP completely unscreened, paired unscreened, twisted cable
F/UTP completely foil screened, paired unscreened, twisted cable
SF/UTP cable completely screened with foil and braid, paired unscreened, twisted cable
S/FTP cable completely screened with braid, paired foil screened twisted cable

- External cladding consisting of PVC or a halogen-free, fame resistant compound.
  Halogen-free = no corrosive, or clearly less toxic gases and very low quantities of smoke
  Flame resistant = self extinguishing after removal of the heat source, very limited propagation of fire

FR = flame retardant
LS = low smoke
NC = no corrosive fumes
OH, ZH = no halogen

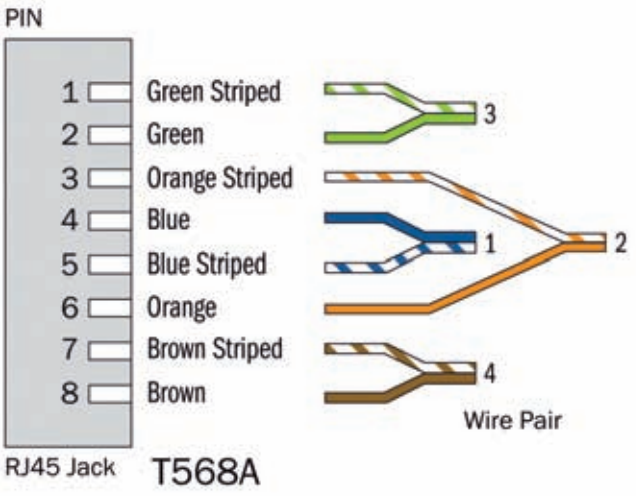
The requirements for the patch panels and jacks are defined in DIN EN 50173-1. These products are divided into various classes in accordance with the performance class. Optimisation of the products allows panels and jacks to satisfy the requirements when a gigabit Ethernet is being operated. These have been set down in the standards DIN EN 50173-1:2000 with both types, category 3 up to 16 MHz and category 5 up to 100 MHz and also in EIN EN 50173:2002 with the types, category5 up to 100 MHz, category 6 up to 250 MHz and category 7 up to 600 MHz. The designation, category 5E which is generally used on the market corresponds to category 5 in accordance with DIN EN 50173-1:2000.

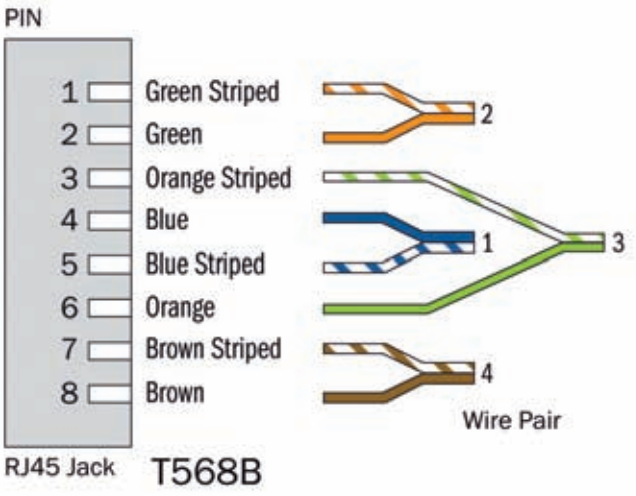
All the category 5 products certified according to standard can be used independently from their manufacturers in so-called „Mix & Match" systems. They are combined into a class D connection in the installation which has been created.

Class E products are characterized by the fact that each manufacturer has optimized his articles for his products with 250 MHz in order to satisfy the requirements of class E.
All the products are clearly defined and only „work" with each other according to certification. This means that „Mix & Match" is not possible. These products also do not comply with category 6 in accordance with DIN EN 50173-1:2002.

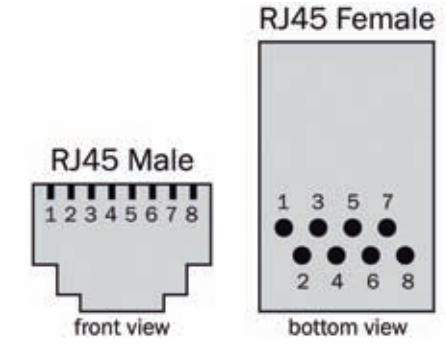
Category 6 products according to the new standard are only products which have been tested according to „De-Embedded Testing". This makes sure that the advantages reached by technical and mechanical improvements are used. Each category 6 jack with a RJ45 plug produces a category 6 connection according to standard.

„De-Embedded-Testing" - Logo





There is the option of using two configurations when cables are laid to patch panels and junction boxes and also when patch cables are being made. A distinction is made here according to colour code in accordance with EIA/TIA 568A or EIA/TIA 568B. The colour code used for the configuration is not important for the respective application, but has to be carried continuously throughout the complete system. Care also has to be taken when processing the patch cable to make sure that the paired twisting remains the same with the exception of the last 13 mm and that the possible pair screening is lead up to the LSA terminal rail.

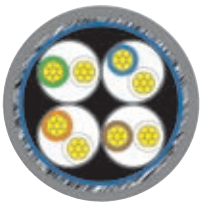


Different applications run on the pairs / pins in the respective combination.

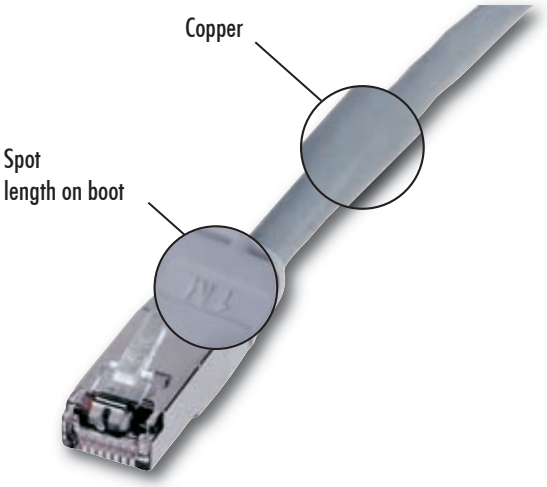
- Ethernet 1-2, 3-6
- Fast Ethernet 1-2, 3-6
- Gigabit Ethernet 1-2. 3-6, 4-5, 7-8
- 10 Gigabit Ethernet 1-2. 3-6, 4-5, 7-8
- ISDN 4-5, 3-6
- Token Ring 4-5, 3-6
- FDDI 1-2, 7-8
- ATM 1-2, 7-8

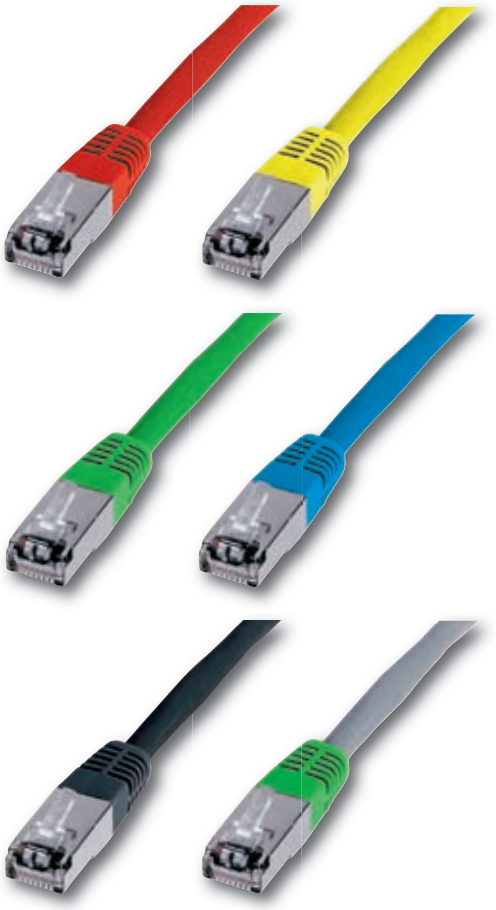
DIGITUS® Premium CAT 6 S-FTP patch cable

Ready for PoE



- Pairs with foil and full braid shilding (PIMF) patch cables
- 4 x 2 x AWG 26/7, twisted pair, 100 Ohm
- 2 x RJ45 shielded connectors
- Boot with kink protection and strain relief
- Spot length on boot
- Connection 1 : 1
- Qualified for 1 Gbit Ethernet
- Ready for PoE





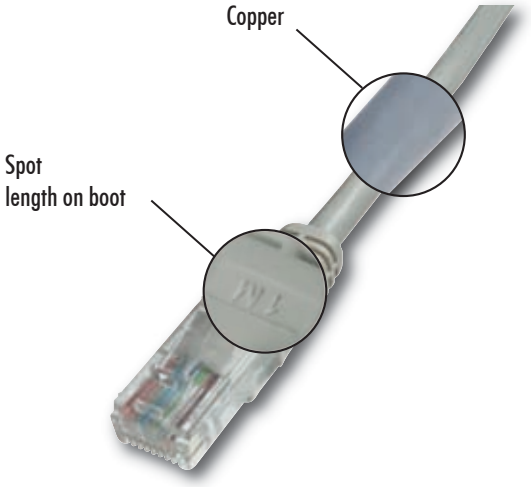
Please choose your requested product by the corresponding article number or the EAN code.

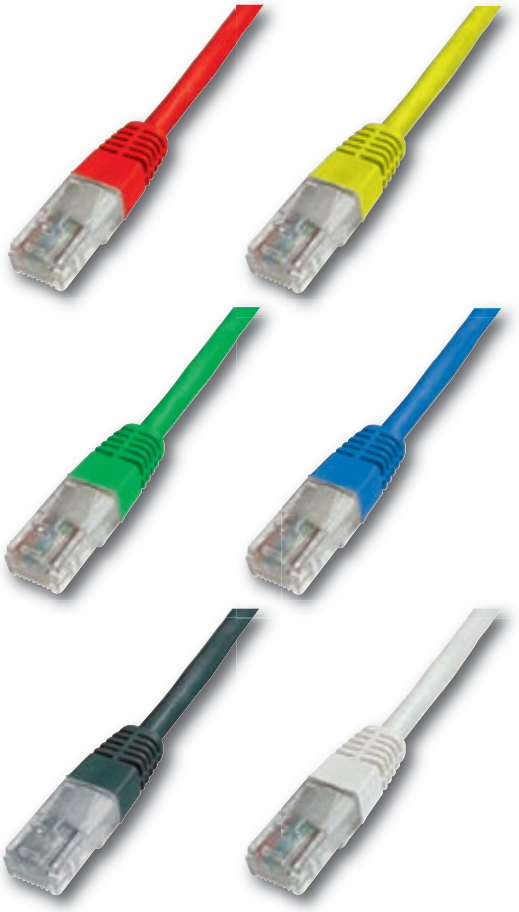
	grey	red	yellow	green	blue	black	crossover
0,5 m	DK-1641-005 214922	DK-1641-005/R 215059	DK-1641-005/Y 215066	DK-1641-005/G 215042	DK-1641-005/B 214939	DK-1641-005/BL 215035	DK-1641-005-CO 215912
1,0 m	DK-1641-010 214946	DK-1641-010/R 215103	DK-1641-010/Y 215110	DK-1641-010/G 215097	DK-1641-010/B 215073	DK-1641-010/BL 215080	DK-1641-010-CO 215929
2,0 m	DK-1641-020 214953	DK-1641-020/R 215165	DK-1641-020/Y 215172	DK-1641-020/G 215158	DK-1641-020/B 215127	DK-1641-020/BL 215141	DK-1641-020-CO 215936
3,0 m	DK-1641-030 214960	DK-1641-030/R 215219	DK-1641-030/Y 215226	DK-1641-030/G 215202	DK-1641-030/B 215189	DK-1641-030/BL 215196	DK-1641-030-CO 215943
5,0 m	DK-1641-050 214977	DK-1641-050/R 215264	DK-1641-050/Y 215271	DK-1641-050/G 215257	DK-1641-050/B 215233	DK-1641-050/BL 215240	DK-1641-050-CO 215950
7,0 m	DK-1641-070 214984	DK-1641-070/R 215301	DK-1641-070/Y 215318	DK-1641-070/G 215295	DK-1641-070/B 215288	DK-1641-070/BL 215325	DK-1641-070-CO 215967
10,0 m	DK-1641-100 214991	DK-1641-100/R 215363	DK-1641-100/Y 215370	DK-1641-100/G 215356	DK-1641-100/B 215332	DK-1641-100/BL 215349	DK-1641-100-CO 215974
15,0 m	DK-1641-150 215004						DK-1641-150-CO 215981
20,0 m	DK-1641-200 215011						DK-1641-200-CO 215998
30,0 m	DK-1641-300 215028						DK-1641-300-CO 216001

DIGITUS® Premium CAT 6 U-UTP patch cable

Ready for PoE

- Unshielded CAT 6 patch cables
- 4 x 2 AWG 26/7, twisted pair, 100 Ohm
- 2 x RJ45 connectors
- Boot with kink protection and strain relief
- Spot length on boot
- Qualified for 1 Gbit Ethernet
- Ready for PoE
- Connection 1 : 1





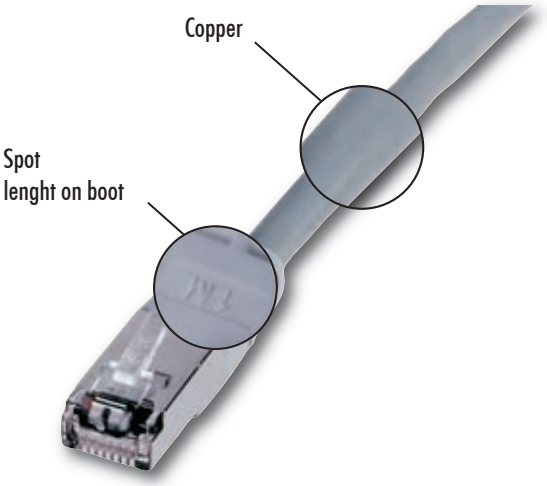
Please choose your requested product by the corresponding article number or the EAN code.

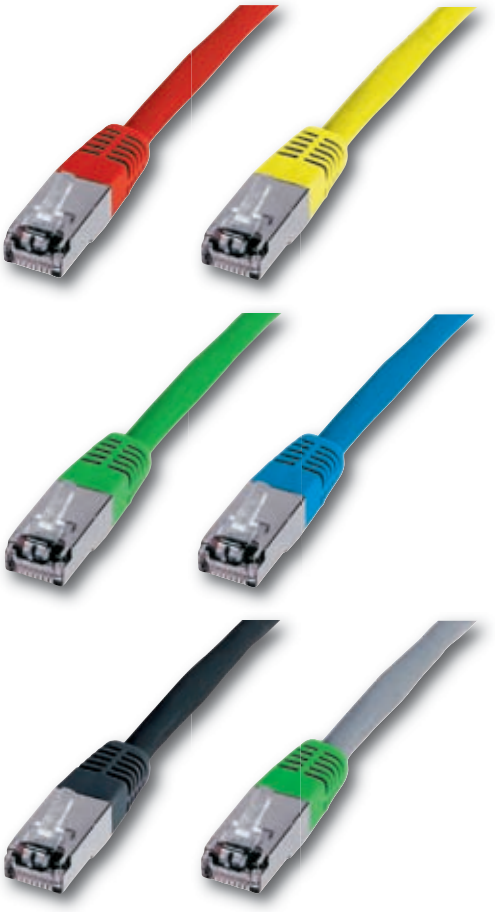
	grey	red	yellow	green	blue	black	white
0,5 m	DK-1611-005 214205	DK-1611-005/R 214335	DK-1611-005/Y 214359	DK-1611-005/G 214328	DK-1611-005/B 214304	DK-1611-005/BL 214311	DK-1611-005/WH 214342
1,0 m	DK-1611-010 214212	DK-1611-010/R 214380	DK-1611-010/Y 214410	DK-1611-010/G 214373	DK-1611-010/B 214366	DK-1611-010/BL 214403	DK-1611-010/WH 214397
2,0 m	DK-1611-020 214229	DK-1611-020/R 214458	DK-1611-020/Y 214472	DK-1611-020/G 214434	DK-1611-020/B 214427	DK-1611-020/BL 214441	DK-1611-020/WH 214465
3,0 m	DK-1611-030 214236	DK-1611-030/R 214519	DK-1611-030/Y 214533	DK-1611-030/G 214502	DK-1611-030/B 214489	DK-1611-030/BL 214496	DK-1611-030/WH 214526
5,0 m	DK-1611-050 214243	DK-1611-050/R 214571	DK-1611-050/Y 214595	DK-1611-050/G 214564	DK-1611-050/B 214540	DK-1611-050/BL 214557	DK-1611-050/WH 214588
7,0 m	DK-1611-070 214250	DK-1611-070/R 214632	DK-1611-070/Y 214649	DK-1611-070/G 214625	DK-1611-070/B 214601	DK-1611-070/BL 214618	DK-1611-070/WH 214656
10,0 m	DK-1611-100 214267	DK-1611-100/R 214694	DK-1611-100/Y 214717	DK-1611-100/G 214687	DK-1611-100/B 214663	DK-1611-100/BL 214670	DK-1611-100/WH 214700
15,0 m	DK-1611-150 214274						
20,0 m	DK-1611-200 214281						
30,0 m	DK-1611-300 214298						

DIGITUS® Premium CAT 5e SF-UTP patch cable

- Foil and braid shielded CAT 5e patch cables
- 4 x 2 AWG 26/7, twisted pair, 100 Ohm
- 2 x RJ45 connectors
- Boot with kink protection and strain relief
- Spot length on boot
- Qualified for 1 Gbit Ethernet
- Ready for PoE

Ready for PoE



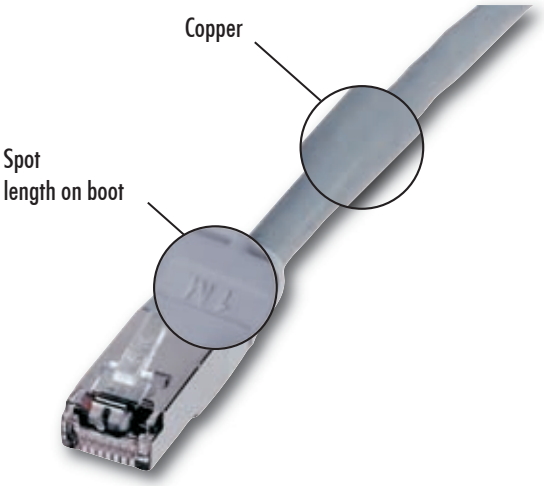


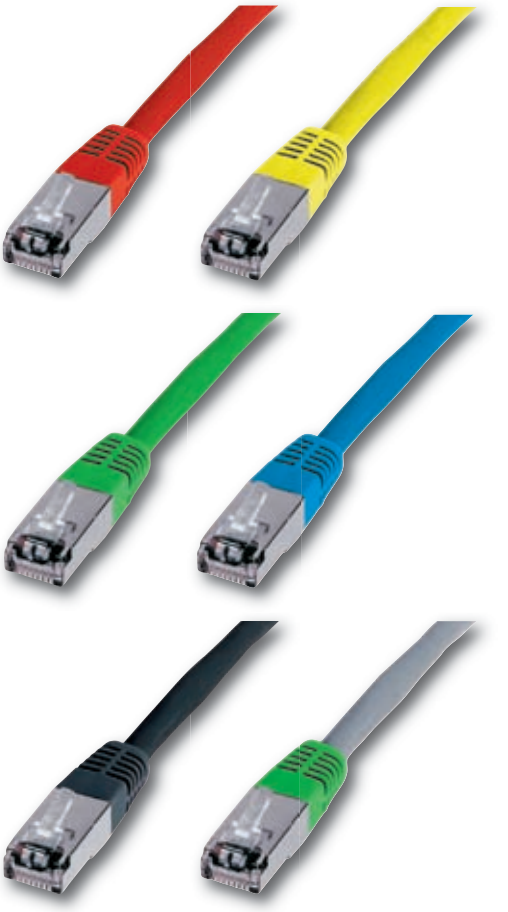
Please choose your requested product by the corresponding article number or the EAN code.

	grey	red	yellow	green	blue	black	CROSSOVER
0,5 m	DK-1531-005 212249	DK-1531-005/R 213734	DK-1531-005/Y 213741	DK-1531-005/G 213727	DK-1531-005/B 213703	DK-1531-005/BL 213710	DK-1531-005-CO 215820
1,0 m	DK-1531-010 213079	DK-1531-010/R 213789	DK-1531-010/Y 213796	DK-1531-010/G 213772	DK-1531-010/B 213758	DK-1531-010/BL 213765	DK-1531-010-CO 215905
2,0 m	DK-1531-020 213086	DK-1531-020/R 213833	DK-1531-020/Y 213840	DK-1531-020/G 213819	DK-1531-020/B 213802	DK-1531-020/BL 213826	DK-1531-020-CO 215837
3,0 m	DK-1531-030 213093	DK-1531-030/R 213888	DK-1531-030/Y 213895	DK-1531-030/G 213864	DK-1531-030/B 213857	DK-1531-030/BL 213871	DK-1531-030-CO 215844
5,0 m	DK-1531-050 213109	DK-1531-050/R 213932	DK-1531-050/Y 213949	DK-1531-050/G 213925	DK-1531-050/B 213901	DK-1531-050/BL 213918	DK-1531-050-CO 215851
7,0 m	DK-1531-070 213116	DK-1531-070/R 213987	DK-1531-070/Y 213994	DK-1531-070/G 213970	DK-1531-070/B 213956	DK-1531-070/BL 213963	
10,0 m	DK-1531-100 213123	DK-1531-100/R 214038	DK-1531-100/Y 214045	DK-1531-100/G 214021	DK-1531-100/B 214007	DK-1531-100/BL 214014	DK-1531-100-CO 215868
15,0 m	DK-1531-150 213130	DK-1531-150/R 214083	DK-1531-150/Y 214090	DK-1531-150/G 214076	DK-1531-150/B 214052	DK-1531-150/BL 214069	DK-1531-150-CO 215875
20,0 m	DK-1531-200 213147	DK-1531-200/R 214137	DK-1531-200/Y 214144	DK-1531-200/G 214120	DK-1531-200/B 214106	DK-1531-200/BL 214113	DK-1531-200-CO 215882
30,0 m	DK-1531-300 213154	DK-1531-300/R 214175	DK-1531-300/Y 214182	DK-1531-300/G 214168	DK-1531-300/B 214151	DK-1531-300/BL 214199	DK-1531-300-CO 215899

DIGITUS® Premium CAT 5e F-UTP patch cable

- Foil shielded CAT 5e patch cables
- 4 x 2 AWG 26/7, twisted pair, 100 Ohm
- 2 x RJ45 shielded connectors
- Boot with kink protection and strain relief
- Spot length on boot
- Qualified for 1 Gbit Ethernet
- Ready for PoE





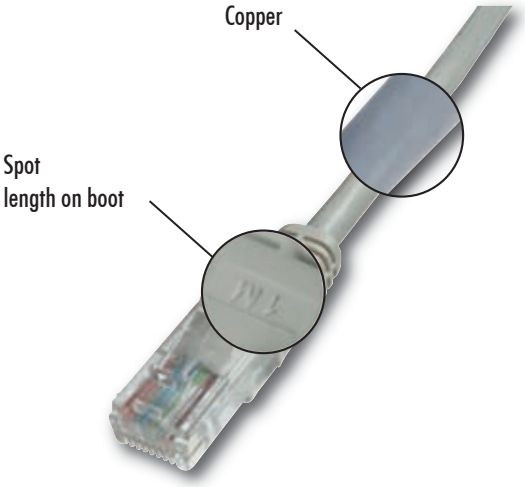
Please choose your requested product by the corresponding article number or the EAN code.

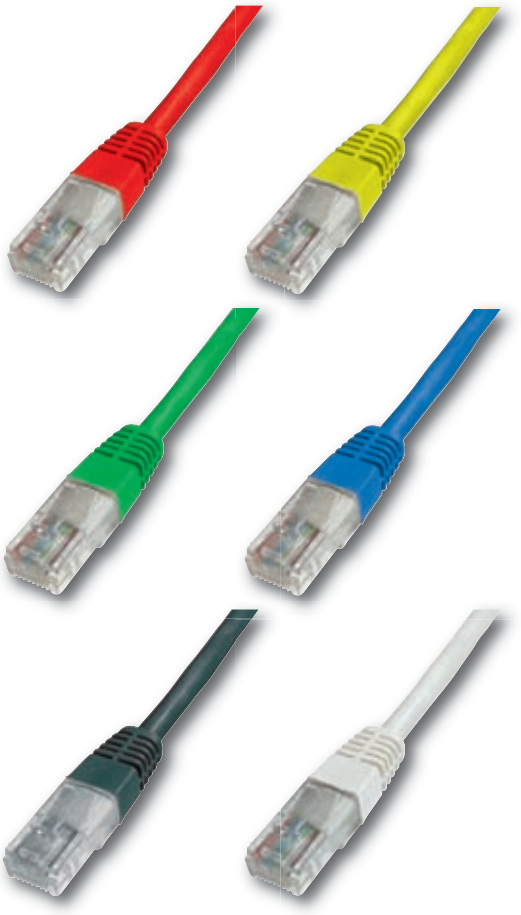
	grey	red	yellow	green	blue	black	crossover
0,3 m							DK-1521-003-CO 215721
0,5 m	DK-1521-005 212232	DK-1521-005/R 213192	DK-1521-005/Y 213208	DK-1521-005/G 213185	DK-1521-005/B 213161	DK-1521-005/BL 213178	DK-1521-005-CO 215738
1,0 m	DK-1521-010 212966	DK-1521-010/R 213246	DK-1521-010/Y 213253	DK-1521-010/G 213239	DK-1521-010/B 213215	DK-1521-010/BL 213222	DK-1521-010-CO 215745
2,0 m	DK-1521-020 212973	DK-1521-020/R 213291	DK-1521-020/Y 213307	DK-1521-020/G 213284	DK-1521-020/B 213260	DK-1521-020/BL 213277	DK-1521-020-CO 215752
3,0 m	DK-1521-030 212980	DK-1521-030/R 213345	DK-1521-030/Y 213352	DK-1521-030/G 213338	DK-1521-030/B 213314	DK-1521-030/BL 213321	DK-1521-030-CO 215769
5,0 m	DK-1521-050 212997	DK-1521-050/R 213390	DK-1521-050/Y 213406	DK-1521-050/G 213383	DK-1521-050/B 213369	DK-1521-050/BL 213376	DK-1521-050-CO 215776
7,0 m	DK-1521-070 213000			DK-1521-070/G			
10,0 m	DK-1521-100 213017	DK-1521-100/R 213499	DK-1521-100/Y 213505	DK-1521-100/G 213482	DK-1521-100/B 213468	DK-1521-100/BL 213475	DK-1521-100-CO 215783
15,0 m	DK-1521-150 213024	DK-1521-150/R 213543	DK-1521-150/Y 213550	DK-1521-150/G 213536	DK-1521-150/B 213512	DK-1521-150/BL 213529	DK-1521-150-CO 215790
20,0 m	DK-1521-200 213031	DK-1521-200/R 213598	DK-1521-200/Y 213604	DK-1521-200/G 213581	DK-1521-200/B 213567	DK-1521-200/BL 213574	DK-1521-200-CO 215806
30,0 m	DK-1521-300 213048						DK-1521-300-CO 215813
50,0 m	DK-1521-500 213055						

DIGITUS® Premium CAT 5e U-UTP patch cable

- Unshielded CAT 5e patch cables
- 4 x 2 AWG 26/7, twisted pair, 100 Ohm
- 2 x RJ45 connectors
- Boot with kink protection and strain relief
- Spot length on boot
- Connection 1 : 1
- Qualified for 1Gbit Ethernet
- Ready for PoE

Ready for PoE





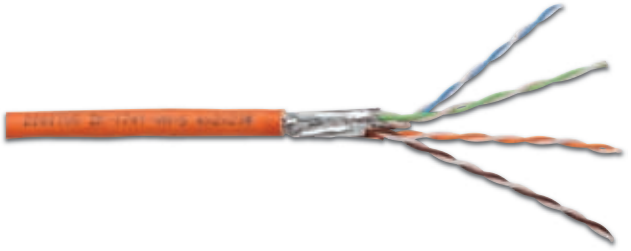
Please choose your requested product by the corresponding article number or the EAN code.

	grey	red	yellow	green	blue	black	white
0,5 m	DK-1511-005 212119	DK-1511-005/R 212287	DK-1511-005/Y 212300	DK-1511-005/G 212270	DK-1511-005/B 212126	DK-1511-005/BLACK 212263	DK-1511-005/WH 212294
1,0 m	DK-1511-010 212102	DK-1511-010/R 212348	DK-1511-010/Y 212362	DK-1511-010/G 212324	DK-1511-010/B 212317	DK-1511-010/BLACK 212331	DK-1511-010/WH 212355
1,5 m	DK-1511-015 212133	DK-1511-015/R 212409	DK-1511-015/Y 212423	DK-1511-015/G 212393	DK-1511-015/B 212379	DK-1511-015/BLACK 212386	DK-1511-015/WH 212416
2,0 m	DK-1511-020 212140	DK-1511-020/R 212454	DK-1511-020/Y 212461	DK-1511-020/G 212447	DK-1511-020/B 212430	DK-1511-020/BLACK 212485	DK-1511-020/WH 212478
3,0 m	DK-1511-030 212157	DK-1511-030/R 212522	DK-1511-030/Y 212546	DK-1511-030/G 212515	DK-1511-030/B 212492	DK-1511-030/BLACK 212508	DK-1511-030/WH 212539
5,0 m	DK-1511-050 212164	DK-1511-050/R 212584	DK-1511-050/Y 212607	DK-1511-050/G 212577	DK-1511-050/B 212553	DK-1511-050/BLACK 212560	DK-1511-050/WH 212591
7,0 m	DK-1511-070 212171	DK-1511-070/R 212645	DK-1511-070/Y 212669	DK-1511-070/G 212621	DK-1511-070/B 212614	DK-1511-070/BLACK 212638	DK-1511-070/WH 212652
10,0 m	DK-1511-100 212188	DK-1511-100/R 212706	DK-1511-100/Y 212720	DK-1511-100/G 212690	DK-1511-100/B 212676	DK-1511-100/BLACK 212683	DK-1511-100/WH 212713
15,0 m	DK-1511-150 212195	DK-1511-150/R 212768	DK-1511-150/Y 212775	DK-1511-150/G 212751	DK-1511-150/B 212737	DK-1511-150/BLACK 212744	DK-1511-150/WH 212782
20,0 m	DK-1511-200 212201	DK-1511-200/R 212829	DK-1511-200/Y 212843	DK-1511-200/G 212812	DK-1511-200/B 212799	DK-1511-200/BLACK 212805	DK-1511-200/WH 212836
25,0 m	DK-1511-250 212218						
30,0 m	DK-1511-300 212225	DK-1511-300/R 212928	DK-1511-300/Y 212935	DK-1511-300/G 212911	DK-1511-300/B 212904	DK-1511-300/BLACK 212959	DK-1511-300/WH 212942

DIGITUS® CAT 7 Twisted Pair Installation Cable

4x2xAWG23 S-FTP CAT 7 1000 MHz LSZH Data cable

Category 7 S/FTP indoor cable, conforming to ISO/IEC-11801 & IEC 61156-5. The cable contains 4 individually foil-shielded twisted pairs cabled together, overall shielded with a tinned-copper braid overall jacketed with LSOH compound for indoor use, conforming to IEC 60233-1.



Physical Description	
Basic Conductor	Solid 23AWG, bare annealed copper (0.57mm nom.)
Insulation	SFS-PO.
Total number of insulated conductors	8, twisted in 4 pairs.
Color code	Blue x White, Orange x White, Green x White, Brown x White.
Individual pair shield	Aluminum foil, providing 100% coverage, foil face out.
Overall shield	Tin-coated copper wire braid, 35% nom. coverage.
Drain wire	None.
Outer jacket	Low-smoke, Zero-halogen, Flame-retardant compound for indoor use.
Outer jacket thickness	0.6 mm nom.
Color	Orange RAL 2000.
Overall Diameter	7.5 mm nom.
Surface Marking	DIGITUS® DK-1741-VH-5 4x2x23# S/FTP CATEGORY 7 SHIELDED LS0H CABLE VERIFIED to CAT 7 ISO/IEC-11801 & IEC 61156-5 FR IEC 60332-1 CE 2002/95/EC (RoHS) [Meter Mark] METER [Batch Number]

Mechanical Properties	
Bend Radius	Dynamic: 8xD mm min. Static: 4xD mm min
Storage Temperature	-20 to +75C
Temperature installation range	0 to +50C
Temperature operating range	-20 to +60C
Flame Tests	IEC 60332-1 (Fire), IEC 60754 (gas) & IEC 61034 (smoke)
Pulling force	150 N max.
Caloric value	650 KJ/m
Total Weight	68 Kg/Km nom.

Electrical Properties @ 20C	
Mean Impedance	100±5 Ohm @ 1-600 MHz
Vp	75-77% nom.
Capacitance	40 pF/m nom @ 1 KHz
Capacitance unbalance to ground	1.6 pF/m max. @ 1 KHz
Insulation Resistance	0.5 GOhm • Km min.
DC Resistance	72 Ohm/Km max. (2% max. resistance unbalance).
DC Loop Resistance	147 Ohm/Km max. (2% max. resistance unbalance).
Voltage rating	72Vdc max.
Coupling attenuation	85dB min @ 30-100 MHz. 85-20Log(f/100) dB min. @ 100-1000 MHz.
PS-ANEXT Loss	92.5-15Log(f) dB min. @ 1-600 MHz (67dB max).
PS-AACRF	78.2-20Log(f) dB min. @ 1-600 MHz (67dB max.)
Phase delay	534+36/$f^{½}$ nS/100m max. @ f=1-1000 MHz.
Delay Skew	25 nS/100m max.

Transmission Properties @ 20C

FREQ.	Insertion Loss		NEXT		PS NEXT		EL FEXT		PS EL FEXT		RL		TCL		EL-TCTL	
MHz	dB/100m		dB		dB		dB/100m		dB/100m		dB		dB		dB	
	Typ		Typ	Typ	Typ	Typ	Typ	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ
10.00	5.5		98.0		95.0		95.0		91.6		26.0		40		15	
20.00	7,9		98.0		95.0		98.0		88.6		26.0		36		7.0	
62.50	14.5		98.0		95.0		86.0		82.6		26.0		32		NS	
100.00	18,5		98.0		95.0		82.0		78.6		24.0		30		NS	
200.00	29,6		88.0		85.0		70.0		66.6		22.0		27		NS	
300.00	32.8		87.0		84.0		67.0		63.6		21.0		NS		NS	
600.00	47.6		86.0		83.0		52.0		48.6		19.0		NS		NS	
900.00	60,4	55	80.0	86	77.0	84	48.0		44.6		18.0		NS		NS	
1000.00	64,8	59	78.0	83	75.0	81	47.0		44.6		18.0		NS		NS	

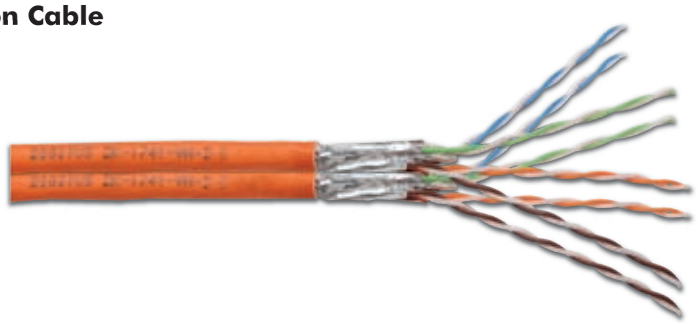
241324 / DK-1741-VH-5
500m drum, CAT 7 Twisted Pair Installation Cable

247449 / DK-1741-VH-1
100m ring, CAT 7 Twisted Pair Installation Cable

DIGITUS® CAT 7 Twisted Pair Installation Cable

2x 4x2xAWG23 S-FTP CAT 7 1000 MHz LSZH installation cable

Suitable for building structured cabling in the secondary and tertiary area.
For installation of cable lines of class F, 1000 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-4-1



Physical description	
Basic Conductor	solid AWG 23/1, bare annealed copper (0.57mm nom.)
Insulation	SFS-PO
Total number of insulated conductors	2x8, twisted in 2x4 pairs
Color code	blue x white, orange x white, green x white, brown x white
Individual pair shield	Aluminium foil, providing 100% coverage, foil face out
Overall shield	tin-coated copper wire braid, 35% nom. coverage
Outer jacket	low-smoke, zero-halogen, flame retardant, non corrosive compound for indoor use
Outer jacket thickness	0.6 mm nom.
Color	orange RAL 2000.
Overall diameter	16x7.5 mm nom.
Copper (kg/km)	56
Print	DIGITUS® DK-1741-VH-D-5 2x 4x2x23# S/FTP CATEGORY 7 SHIELDED LS0H CABLE VERIFIED to CAT 7 ISO/IEC-11801 & IEC 61156-5 FR IEC 60332-1 CE 2002/95/EC (RoHS) [Meter Mark] METER [Batch Number]

Mechanical properties	
Bend radius	dynamic: 8xD mm min., static: 4xD mm min.
Storage temperature	-20 to +75C
Temperature installation range	0 to +50C
Temperature operating range	-20 to +60C
Flame tests	IEC 60332-1 (fire), IEC 60754 (gas) & IEC 61034 (smoke)
Pulling force	150 N max.
Caloric value	650 KJ/m
Total weight	136 Kg/Km nom.

Electrical properties	
Mean impedance	100±5 Ohm bei 1-600 MHz
Vp	75-77% nom.
Capacitance	40 pF/m nom bei 1 KHz
Capacitance unbalance to ground	1.6 pF/m max. bei 1 KHz
Insulation resistance	0.5 GOhm • Km min.
DC resistance	72 Ohm/Km max. (2% max. resistance unbalance).
DC loop resistance	147 Ohm/Km max. (2% max. resistance unbalance).
Voltage resistance	72Vdc max.
Coupling attenuation	85dB min bei 30-100 MHz. 85-20Log(f/100) dB min. at 100-1000 MHz.
PS-ANEXT loss	92.5-15Log(f) dB min. at 1-600 MHz (67dB max).
PS-AACRF	78.2-20Log(f) dB min. at 1-600 MHz (67dB max.)
Phase delay	534+36/$f^{½}$ nS/100m max. bei f=1-1000 MHz.
Delay skew	25 nS/100m max.

Transferproperties

FREQ.	Absorbability	NEXT	PS NEXT	EL FEXT	PS EL FEXT	RL	TCL	EL-TCTL
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB	dB	dB
	Typ	Typ	Typ	Typ	Typ	Typ	Typ	Typ
10.00	5.5	98.0	95.0	95.0	91.6	26.0	40	15
20.00	7,9	98.0	95.0	98.0	88.6	26.0	36	7.0
62.50	14.5	98.0	95.0	86.0	82.6	26.0	32	NS
100.00	18,5	98.0	95.0	82.0	78.6	24.0	30	NS
200.00	29,6	88.0	85.0	70.0	66.6	22.0	27	NS
300.00	32.8	87.0	84.0	67.0	63.6	21.0	NS	NS
600.00	47.6	86.0	83.0	52.0	48.6	19.0	NS	NS
900.00	60,4	80.0	77.0	48.0	44.6	18.0	NS	NS
1000.00	64,8	78.0	75.0	47.0	44.6	18.0	NS	NS

247289 / DK-1741-VH-D-5
500m drum, duplex, halogenfree outer jacket

DIGITUS® CAT 6 F-UTP Twisted Pair Installation Cable

4x2xAWG23 F-UTP CAT 6 250 MHz LSZH installation cable

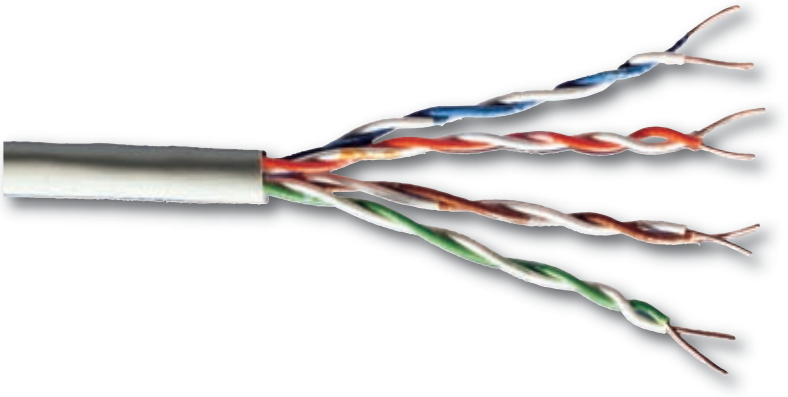
Suitable for building structured cabling in the secondary and tertiary area.
For installation of cable lines of class E, 250 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-5-1

Physical description
- Basic Conductor: solid AWG 23/1
- Insulation: PE
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: aluminium foil
- Outer jacket: halogenfree (LSZH)
- Color: orange

Electrical properties
- Mean impedance: 100±5 Ohm @ 1-250 MHz
- Vp: 65% nom.
- Delay skew: 20 nS/100m max.

	Installation cable
100m Drum	DK-1621-VH-1 256205
500m Drum	DK-1621-VH-5 251682

DIGITUS® CAT 6 U-UTP Twisted Pair Installation Cable



4x2xAWG23 U-UTP CAT 6 250 MHz installation cable

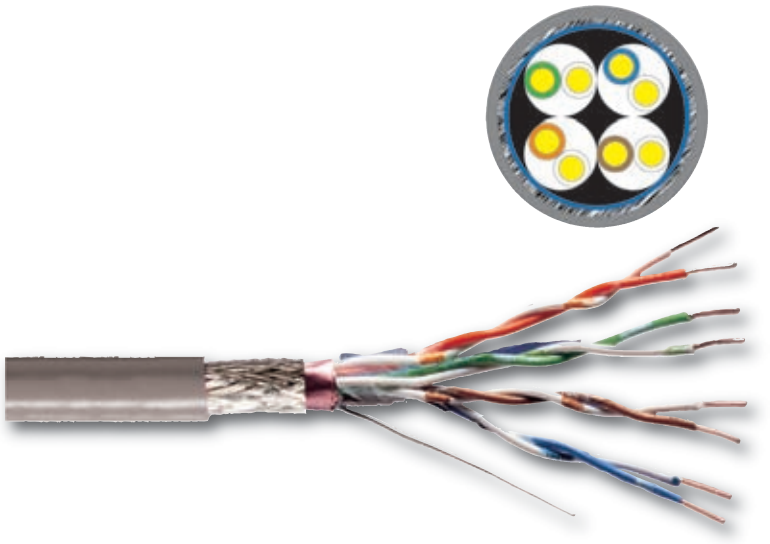
Suitable for building structured cabling in the secondary and tertiary area.
For installation of cable lines of class E, 250 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-5-1

Physical description
- Basic Conductor: solid AWG 23/1
- Insulation: PE
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: none
- Outer jacket: PVC
- Color: grey

Electrical properties
- Mean impedance: 100±5 Ohm @ 1-250 MHz
- Vp: 65% nom.
- Delay skew: 20 nS/100m max.

	Installation cable
100m Drum	DK-1611-V-1 241225
305m Drum	DK-1611-V-305 241232

DIGITUS® CAT 5e SF-UTP LSOH twisted pair installation cable



4x2xAWG24 SF-UTP CAT 5e 100 MHz LSZH installation cable

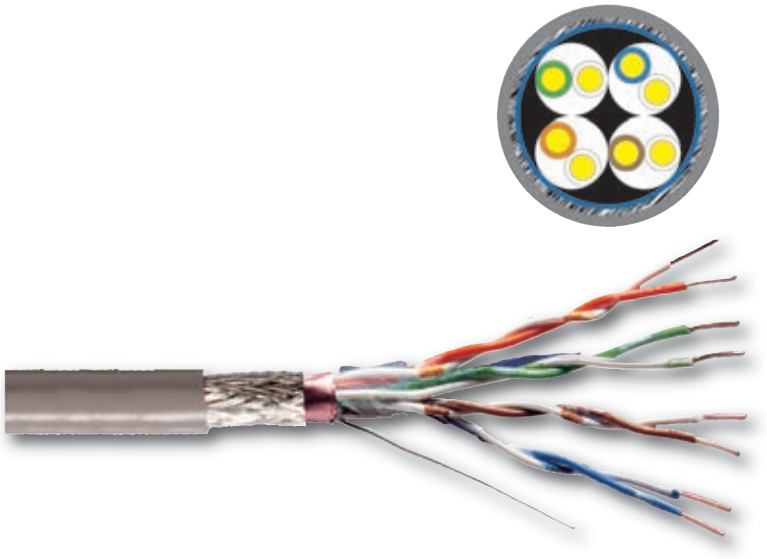
Suitable for building structured cabling in the secondary and tertiary area.
For installation of cable lines of class E, 100 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-2-1

Physical description
- Basic Conductor: solid AWG 24/1
- Insulation: PE
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: aluminium foil and tin-coated copper wire braid
- Outer jacket: halogenfree (LSZH)
- Color: grey

Electrical properties
- Mean impedance: 100±5 Ohm @ 1-250 MHz
- Capacitance unbalance to ground: 1600pF/100m min.
- Insulation resistance: 0.5 GOhm • Km min.
- DC loop resistance: 19 Ohm/100m max. (2% max. resistance unbalance)

	Installation cable
100m Drum	DK-1531-VH-1 241201
500m Drum	DK-1531-VH-5 241218

DIGITUS® CAT 5e SF-UTP Twisted Pair Installation Cable



4x2xAWG24 SF-UTP CAT 5e 100 MHz installation cable

Suitable for building structured cabling in the secondary and tertiary area.
For installation of cable lines of class E, 100 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-2-1

Physical description
- Basic Conductor: solid AWG 24/1
- Insulation: PE
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: aluminium foil and tin-coated copper wire braid
- Outer jacket: PVC
- Color: grey

Electrical properties
- Mean impedance: 100±5 Ohm @ 1-250 MHz
- Capacitance unbalance to ground: 1600pF/100m min.
- Insulation resistance: 0.5 GOhm • Km min.
- DC loop resistance: 19 Ohm/100m max. (2% max. resistance unbalance)

	Installation cable
100m Drum	DK-1531-V-1 241157
305m Drum	DK-1531-V-305 241164

DIGITUS® CAT 5e F-UTP Twisted Pair Installation Cable

4x2xAWG24 F-UTP CAT 5e 100 MHz installation cable

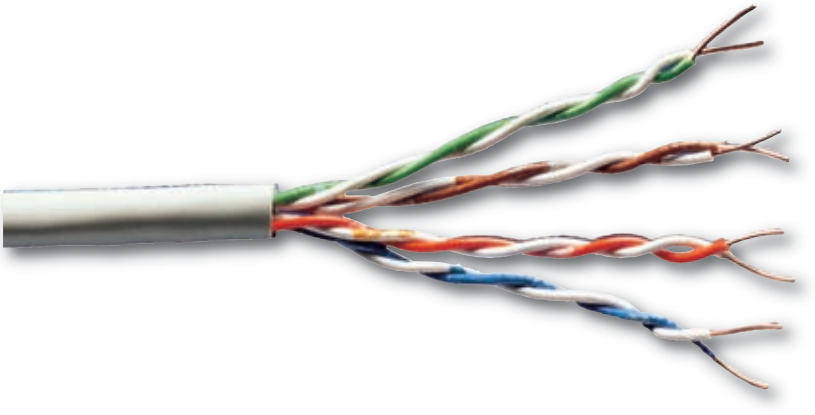
Suitable for building structured cabling in the secondary and tertiary area.
For installation of cable lines of class D, 100 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-2-1

Physical description
- Basic Conductor: solid AWG 24/1
- Insulation: PE
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: aluminium foil
- Outer jacket: PVC
- Color: grey

Electrical properties
- Mean impedance: 100±5 Ohm @ 1-250 MHz
- Capacitance unbalance to ground: 1600pF/100m min.
- Insulation resistance: 0.5 GOhm • Km min.
- DC loop resistance: 19 Ohm/100m max. (2% max. resistance unbalance)

	Installation cable
100m Drum	DK-1521-V-1 241119
305m Drum	DK-1521-V-305 241126

DIGITUS® CAT 5e U-UTP Twisted Pair Installation Cable



4x2xAWG24 U-UTP CAT 5e 100 MHz installation cable

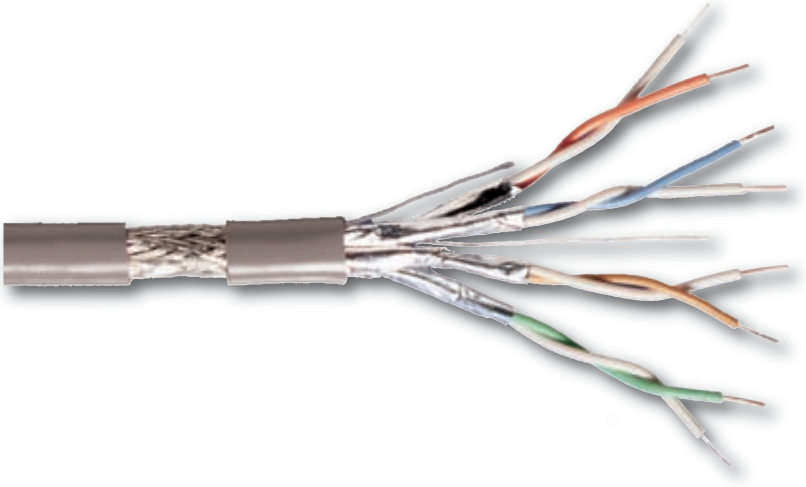
Suitable for building structured cabling in the secondary and tertiary area.
For installation of cable lines of class E, 100 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-3-1

Physical description
- Basic Conductor: solid AWG 24/1
- Insulation: PE
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: none
- Outer jacket: PVC
- Color: grey

Electrical properties
- Mean impedance: 100±15 Ohm @ 1-250 MHz
- Capacitance unbalance: max. 300pF/100m @ 20°C
- Insulation resistance: 50 GOhm • Km min.
- DC loop resistance: 125 Ohm/100m max.
- Mutual capacitance: 5600pF/100m max.

	Installation Cable
100m Drum	DK-1511-V-1 241072
305m Drum	DK-1511-V-305 241126

DIGITUS® CAT 6 S-FTP twisted pair patch cable



4x2xAWG26 S-FTP CAT 6 250 MHz patch cable

Suitable for direct assembly of RJ45 plugs for the manufacture of patch cables.
For installation of cable lines of class E, 250 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-5-1

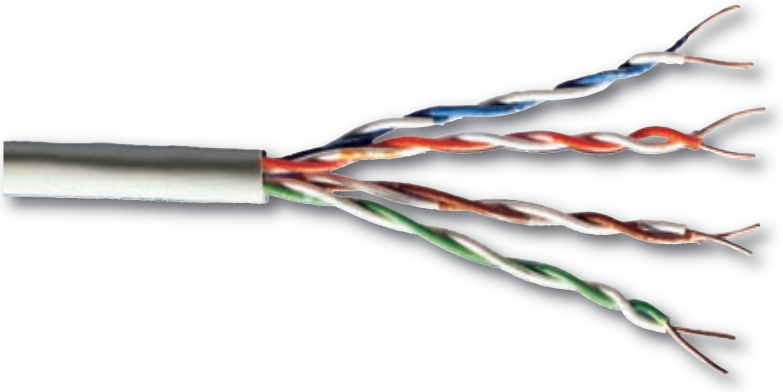
Physical description
- Basic Conductor: stranded AWG 26/7,
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue x white, orange x white, green x white, brown x white
- Individual pair shield: Aluminium foil, providing 100% coverage
- Overall shield: tin-coated copper wire braid
- Outer jacket: low-smoke, zero-halogen, flame retardant, non corrosive compound for indoor use
- Color: grey

Mechanical property
- Flame test: IEC 60332-1 (fire)

Electrical properties
- Mean impedance: 100±6 Ohm @ 1-250 MHz
- Vp: 67% nom.
- Mutual capacitance: 55,8 nF/km max.
- Capacitance unbalance: 1.6 pF/m max.
- Insulation resistance: 0.5 GOhm * Km min.
- DC loop resistance: 450 Ohm/Km max. (2% max. resistance unbalance)
- Phase delay: 5350 nS/km max.
- Delay skew: 40 nS/100m max.

	Patchcable
100m Ring	DK-1641-PH-1 131786
305m Pulloutbox	DK-1641-PH-305 131793

DIGITUS® CAT 6 U-UTPtwisted pair patch cable



4x2xAWG24 U-UTP CAT 6 250 MHz patch cable

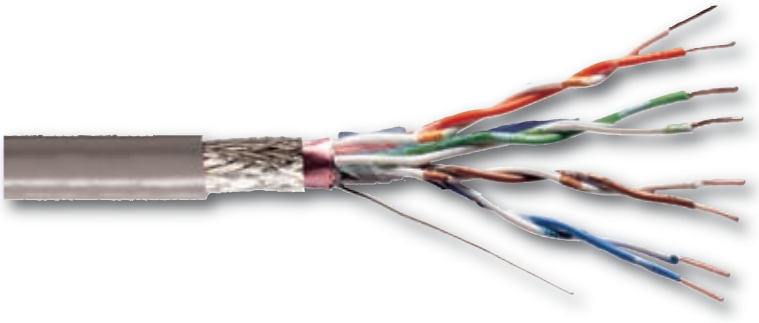
Suitable for direct assembly of RJ45 plugs for the manufacture of patch cables.
For installation of cable lines of class E , 250 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-6-2

Physical description
- Basic Conductor: stranded AWG 24/7,
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue x white, orange x white, green x white, brown x white
- Individual pair shield: none
- Overall shield: none
- Outer jacket: PVC
- Color: grey

Electrical properties
- Mean impedance: 100±6 Ohm @ 1-250 MHz
- Vp: 67% nom.
- Mutual capacitance: 55,8 nF/km max.
- Capacitance unbalance: 1.6 pF/m max.
- Insulation resistance: 0.5 GOhm * Km min.
- DC loop resistance: 450 Ohm/Km max. (2% max. resistance unbalance)
- Phase delay: 5350 nS/km max.
- Delay skew: 40 nS/100m max.

	Patchcable
100m Ring	DK-1611-P-1 131755
305m Pulloutbox	DK-1611-P-305 131762

DIGITUS® CAT 5e SF-UTP twisted pair patch cable



4x2xAWG26 SF-UTP CAT 5e 100 MHz patch cable

Suitable for direct assembly of RJ45 plugs for the manufacture of patch cables.
For installation of cable lines of class D , 100 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-2-2

Physical description
- Basic Conductor: stranded AWG 26/7
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: aluminium foil and tin-coated copper wire braid
- Outer jacket: PVC
- Color: grey

Electrical properties
- Mean impedance: 100±10 Ohm @ 10-100 MHz
- Vp: 66% nom.
- Mutual capacitance: 55,8 nF/km max.
- Capacitance unbalance: 1.6 pF/m max.
- Insulation resistance: 0.5 GOhm * Km min.
- DC loop resistance: 450 Ohm/Km max. (2% max. resistance unbalance)
- Phase delay: 5350 nS/km max.
- Delay skew: 40 nS/100m max.

	Patchcable
100m Ring	DK-1531-P-1 202288
305m Pulloutbox	DK-1531-P-305 202295

DIGITUS® CAT 5e F-UTP twisted pair patch cable

4x2xAWG26 F-UTP CAT 5e 100 MHz patch cable

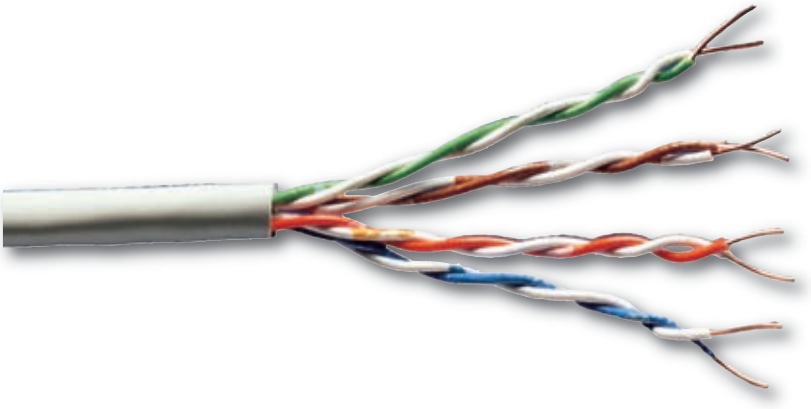
Suitable for direct assembly of RJ45 plugs for the manufacture of patch cables.
For installation of cable lines of class D , 100 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-2-2

Physical description
- Basic Conductor: stranded AWG 26/7
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: aluminium foil
- Outer jacket: PVC
- Color: grey

Electrical properties
- Mean impedance: 100±10 Ohm @ 10-100 MHz
- Vp: 66% nom.
- Mutual capacitance: 55,8 nF/km max.
- Capacitance unbalance: 1.6 pF/m max.
- Insulation resistance: 0.5 GOhm * Km min.
- DC loop resistance: 450 Ohm/Km max. (2% max. resistance unbalance)
- Phase delay: 5350 nS/km max.
- Delay skew: 40 nS/100m max.

	Patchcable
100m Ring	DK-1521-P-1 186434
305m Pulloutbox	DK-1521-P-305 202271

DIGITUS® CAT 5e U-UTP twisted pair patch cable



4x2xAWG24 U-UTP CAT 5e 100 MHz patch cable

Suitable for direct assembly of RJ45 plugs for the manufacture of patch cables.
For installation of cable lines of class D , 100 MHz.
Conforming to ISO/IEC 11801, DIN EN 50173, DIN EN 50288-3-2

Physical description

- Basic Conductor: stranded AWG 24/7
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: blue-white, orange-white, green-white, brown-white
- Individual pair shield: none
- Overall shield: none
- Outer jacket: PVC
- Color: grey

Electrical properties

- Mean impedance: 100±10 Ohm @ 10-100 MHz
- Vp: 66% nom.
- Mutual capacitance: 55,8 nF/km max.
- Capacitance unbalance: 1.6 pF/m max.
- Insulation resistance: 0.5 GOhm * Km min.
- DC loop resistance: 450 Ohm/Km max. (2% max. resistance unbalance)
- Phase delay: 5350 nS/km max.
- Delay skew: 40 nS/100m max.

	Patchcable
100m Ring	DK-1511-P-1 202233
305m Pulloutbox	DK-1511-P-305 202257

DIGITUS® CAT 6 De Embedded certified wall outlet, design compatible, flush mounted

- According to Link Performance Class E, 1 Gbit Ethernet
- CAT6 De Embedded certified
- Up to 250 MHz
- Design compatible with common switch programmes
- Shielded 2 x RJ45 sockets, 8P8C, strain relieving 40°socket angle with dust cover
- Integrated installation cable strain relief
- Shielded RJ45 sockets due to enclosed metal die cast housing
- Flush mount ready (with surface mountbox)
- Cable installation via LSA strips, color codes based on EIA/TIA 568 A & B
- Horizontal cable entry
- Cover frame 80x80, incl. central frame 50x50 according to DIN 49075
- Color white RAL 9010

design compatible

241409 / DN-9005-KL-N
C AT 6 Outlet, fl ush mount

DIGITUS® CAT 6 De Embedded wall outlet, design compatible, surface mounted

- According to Link Performance Class E, 1Gbit Ethernet
- CAT6 De Embedded certified
- Design compatible with common switch programmes
- Shielded 2 x RJ45 sockets, 8P8C, strain relieving 40°socket angle with dust cover
- Integrated installation cable strain relief
- Shielded RJ45 sockets due to enclosed metal die cast housing
- Flush mount ready
- Cable installation via LSA strips, color codes based on EIA/TIA 568 A & B
- Horizontal cable entry
- Cover frame 80x80, incl. central frame 50x50 according to DIN 49075
- Color white RAL 9010

design compatible

241416 / DN-9006-KL-N
Cat6 Outlet, surface mount

DIGITUS® Class E CAT 6 wall outlet, flush mounted

- According to link performance Class E, 1Gbit Ethernet
- Up to 250 MHz
- Shielded 2 x RJ45 sockets, 8P8C, strain relieving 40°socket angle
- Integrated installation cable strain relief
- Shielded RJ45 sockets due to enclosed metal die cast housing
- Flush / surface mount ready (with surface mountbox)
- Cable installation via LSA strips, color codes based on EIA/TIA 568 A & B
- Horizontal cable entry
- Cover frame 80x80, incl. central frame 50x50 according to DIN 49075
- Color white RAL 9010

Class E CAT 6 tested

Channel Link certifi ed

175711 / DN-9005-N
Class E CAT 6 Outlet, fl ush mount

175759 / DN-9005/B5-N
Class E CAT 6 Outlet, Flush mount, 5 pcs.

DIGITUS® Class E CAT 6 modular wall outlet, surface mounted

- According to link performance Class E, 1Gbit Ethernet
- Up to 250 MHz
- Shielded RJ45 sockets, 8P8C, strain relieving 40°socket angle
- Integrated installation cable strain relief
- Shielded RJ45 sockets due to enclosed metal die cast housing
- Flush mount ready
- Cable installation via LSA strips, colour codes based on EIA/TIA 568 A & B
- Horizontal cable entry
- Cover frame 80x80, incl. central frame 50x50 according to DIN 49075
- Color white RAL 9010

Class E CAT 6 tested

Channel Link certifi ed

175735 / DN-9006-N
Class E CAT 6 wall outlet, surface mounted

175742 / DN-9006/B5-N
Class E CAT 6 wall outlet, surface mounted, 5 pcs.

DIGITUS® CAT 5e wall outlets, surface mounted

- CAT 5e, EIA TIA 568 and ISO IEC 11801 / EN 50173, 1Gbit Ethernet
- Up to 100 MHz
- Shielded 2 x RJ45 sockets, 8P8C, strain relieving 40° socket angle
- Integrated installation cable strain relief
- Metal die cast housing
- Flush / surface mount ready (with surface mountbox)
- Cable installation via LSA strips, color codes based on EIA/TIA 568 A & B
- Horizontal cable entry
- Cover frame 80x80, incl. central frame 50x50 according to DIN 49075
- Color white RAL 9010

175650 / DN-9001-N
Cat5e outlet, fl ush mounted

175704 / DN-9001/B5-N
Cat5e outlet, fl ush mounted, 5 pcs.

DIGITUS® CAT 5e Wall Outlet, CAT 5e surface mounted

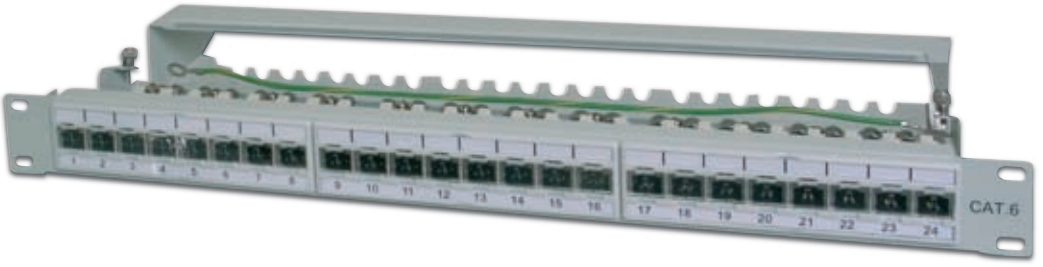
- CAT5e EIA TIA 568 and ISO IEC 11801 / EN 50173, 1Gbit Ethernet
- Up to 100 MHz
- Shielded RJ 45 sockets 8P8C, strain relieving 45° socket angle
- Integrated installation cable strain relief
- Shielding from enclosed metal die cast housing
- Flush mount ready
- Cable installation via LSA strips, colour codes based on EIA/TIA 568 A & B
- Horizontal cable entry
- Cover frame 80x80, incl. central frame 50x50 according to DIN 49075
- Color white RAL 9010

175681 / DN-9002-N
Cat5e wall outlet, surface mounted

175698 / DN-9002/B5-N
Cat5e wall outlet, surface mounted, 5 pcs.

DIGITUS® CAT 6 19" patch panel, De Embedded certified

- According to Link Performance Class E, 1Gbit Ethernet
- Cat 6 De Embedded certified
- Up to 250 Mhz
- Housing of steel sheet, grey color RAL 7035
- Shielded RJ45 female sockets, 8P8C with dust cover
- Cable installation via LSA strips, colour-coded to EIA/TIA 568 A & B
- Fixing option for cable ties
- Central ground connection
- shuttered RJ45 Jacks
- 1U
- Grey RAL 7035



241621 / DN-91624S-KL
CAT6, 19" Patch Panel, 24 port

DIGITUS® Class E CAT 6 19" patch panel

- Class E up to 250 MHz
- 1Gbit Ethernet
- Housing of steel sheet, grey color RAL 7035
- Shielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, colour-coded EIA/TIA 568B
- Fixing option for cable ties, central groand connection
- Central ground connection
- 1U

241607 / DN-91616S
Class E CAT6 Patch Panel 16-Port, 1U

241614 / DN-91624S
Class E CAT6 Patch Panel 24-Port, 1U

DIGITUS® CAT 5e 19" patch panel

- CAT5e up to 100Mhz, ISO IEC 11801, EN 50173
- 1 Gbit Ethernet
- Housing of sheet steel
- Grey RAL 7035
- Shielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, color-coded to EIA/TIA 568 B
- Fixing option for cable ties
- Central ground connection
- 1U

241522 / DN-91524S
24-port, 19" CAT 5e patch panel

241515 / DN-91516S
16-port, 19" CAT 5e patch panel

DIGITUS® Class E CAT 6 19" patch panel, unshielded

- Class E CAT6, up to 250 MHz, ISO IEC 11801, EN 50173
- 1 Gbit Ethernet
- Black RAL 9005
- Unshielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, colour-coded as per EIA/TIA 568 B
- 1U

241546 / DN-91616U
Class E CAT 6 patch panel, 16-port, unshielded, 19"

241553 / DN-91624U
Class E CAT 6 patch panel , 24-port, unshielded, 19"

241560 / DN-91648U
Class E CAT 6 patch panel , 48-port, unshielded, 19"

DIGITUS® CAT 5e 19" patch panel, unshielded

- CAT 5e, up to 100Mhz, ISO IEC 11801, EN 50173
- 1 Gbit Ethernet
- Black RAL 9005
- Unshielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, colour-coded as per EIA/TIA 568 B
- 1U

241454 / DN-91516U
CAT 5e patch panel, 16-port, 1U, unshielded

241461 / DN-91524U
CAT 5e patch panel, 24-port, 1U, unshielded

241478 / DN-91548U
CAT 5e patch panel, 48-port, 2U, unshielded

DIGITUS® Class E CAT 6 10" patch panel

- Class E CAT 6, up to 250Mhz, ISO IEC 11801, EN 50173
- 1 Gbit Ethernet
- Housing of sheet steel
- Black RAL9005
- Shielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, color coded to EIA/TIA 568 B
- Fixing option for cable ties
- Central ground connection
- 1U

241591 / DN-91612S
12-port, shielded, 10"

241577 / DN-91608S
8-port, shielded, 10"

DIGITUS® Class E CAT 6 dekstop patch panel

- Class E CAT 6, up to 250Mhz, ISO IEC 11801, EN 50173
- 1 Gbit Ethernet
- Housing of sheet steel
- Black RAL9005
- Shielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, color coded to EIA/TIA 568 B
- Fixing option for cable ties
- Central ground connection
- 1U

241584 / DN-91608SD
8-port, shielded, Desktop version

DIGITUS® CAT 5e desktop patch panel

- CAT5e, up to 100Mhz, ISO/IEC 11801, EN50173
- 1 Gbit Ethernet
- Housing of sheet steel
- Black RAL9005
- Shielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, color coded to EIA/TIA 568 B
- Fixing option for cable ties
- Central ground connection
- 1U

108931 / DN-10001
CAT 5e Patch Panel, 8-Port, desktop version

DIGITUS® CAT 5e 10" patch panel

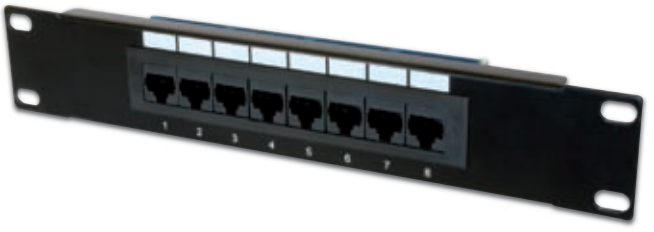
- CAT 5e, up to 100Mhz, ISO IEC 11801, EN 50173
- 1 Gbit Ethernet
- Housing of sheet steel
- Black RAL 9005
- Shielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, color-coded to EIA/TIA 568 B
- Fixing option for cable ties
- Central ground connection
- 1U

241508 / DN-91512S
10" CAT 5e patch panel ,12-port, shielded

241485 / DN-91508S
10" CAT 5e patch panel , 8-port, shielded

DIGITUS® CAT 5e 10" patch panel, unshielded

- CAT 5e, up to 100Mhz, ISO IEC 11801, EN 50173
- 1 Gbit Ethernet
- Black RAL 9005
- Unshielded RJ45 female sockets, 8P8C
- Cable installation via LSA strips, color-coded to EIA/TIA 568 B
- 1U



241430 / DN-91508U
10" CAT 5e patch panel , 8-port, unshielded

241447 / DN-91512U
10" CAT 5e patch panel , 12-port, unshielded

DIGITUS® CAT 3 19" ISDN patch panel

- CAT 3
- Grey RAL 7035
- Unshielded RJ45 female sockets, 8P8C
- Cable instalation via LSA strips
- 1U

241645 / DN-91325
CAT 3 ISDN patch panel , 25-port

241652 / DN-91350
CAT 3 ISDN patch panel , 50-port

DIGITUS® Class E CAT 6 Keystone Jack, shielded

- Link Performance Class E, up to 250 MHz, EN 50173, ISO/IEC 11801
- Cable installation via LSA stripes, color coded according to EIA/TIA 568 A & B
- 1Gbit Ethernet
- RJ45 female for patch panel installation

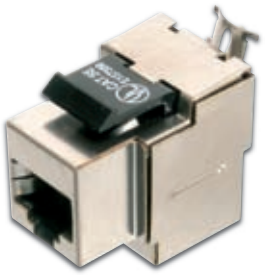
245117 / DN-93611
shielded

DIGITUS® Class E CAT 6 Keystone Jack, unshielded

- Link Performance Class E, up to 250 MHz, EN 50173, ISO/IEC 11801
- Cable installation via LSA stripes, color coded according to EIA/TIA 568 A & B
- 1Gbit Ethernet
- RJ45 female for patch panel installation

245100 / DN-93601
unshielded

DIGITUS® CAT 5e Keystone Jack, shielded



- Tested for Link Performance CAT 5e
- Cable installation via LSA stripes, color-coded as per EIA/TIA 568 A & B
- RJ 45 female for patch panel installation

245094 / DN-93511
shielded

DIGITUS® CAT 5e Keystone Jack, unshielded

- Tested for Link Performance CAT 5e
- Cable installation via LSA stripes, color-coded as per EIA/TIA 568 A & B
- RJ 45 female for patch panel installation

245087 / DN-93501
unshielded

DIGITUS® CAT 6 De Embedded Keystone Modul, tool free connection

DN-93612

DN-93602

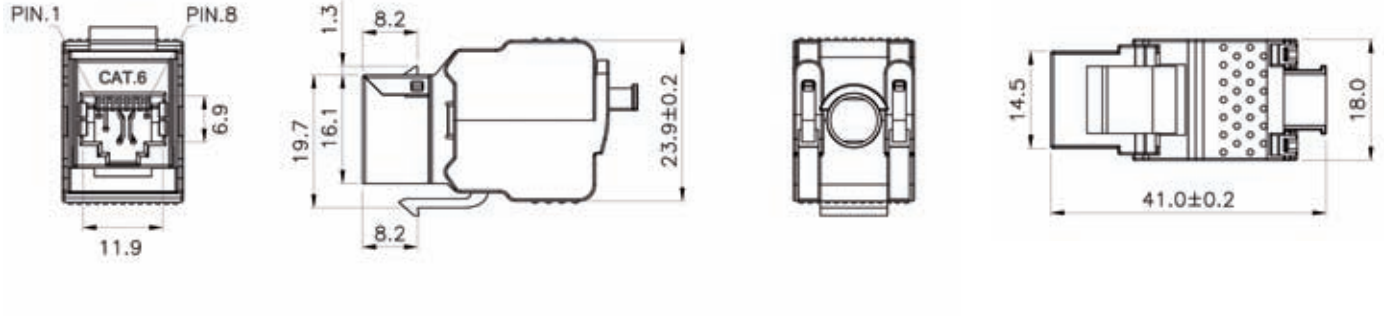
The fully downward compatible CAT 6a Keystone Jacks makes an easy installation in combination with excellent measurements possible. The Keystone Jack supports all current and further standards like 10GBase-T. The innovative housing design offers quick and safe wire terminations without usage of any special tools. Its compact form allows a usage of 24 Keystone Jacks in a row with a 19" 1U Patch Panel. These facts ensure an uncomplicated mounting and marking as well as a high reliability.

Shielded Keystone Jack

Cable Entry:	Rear
Hole Plate Thickness:	Jack will clip into a hole plate thickness of 1.6mm Max
Body:	Zinc Die-casting, nickel-plated
Jack Contacts:	Phosphor Bronze
IDC Contacts:	Phosphor Bronze
Plating:	50µm of gold over 40µm of nickel
Wire Terminations:	Tool Free with Cap.
Wiring Standard:	EIA/TIA 568A/B
Conformance:	Category 6a / 10GBase-T Channel ANSI/EIA/TIA 568B.2.1:2002 ISO/IEC 11801:2002 EN50173-1: 2002
Certifi cation:	Independent Laboratory
Dimension:	18x24x41mm
Weight:	ca. 23g

Unshielded Keystone Jack

Cable Entry:	Rear
Hole Plate Thickness:	Jack will clip into a hole plate thickness of 1.6mm Max
Body:	Plastic
Jack Contacts:	Phosphor Bronze
IDC Contacts:	Phosphor Bronze
Plating:	50µm of gold over 40µm of nickel
Wire Terminations:	Tool Free with Cap.
Wiring Standard:	EIA/TIA 568A/B
Conformance:	Category 6a / 10GBase-T Channel ANSI/EIA/TIA 568B.2.1:2002 ISO/IEC 11801:2002 EN50173-1: 2002
Certifi cation:	Independent Laboratory
Dimension:	18x24x41mm
Weight:	ca. 10g



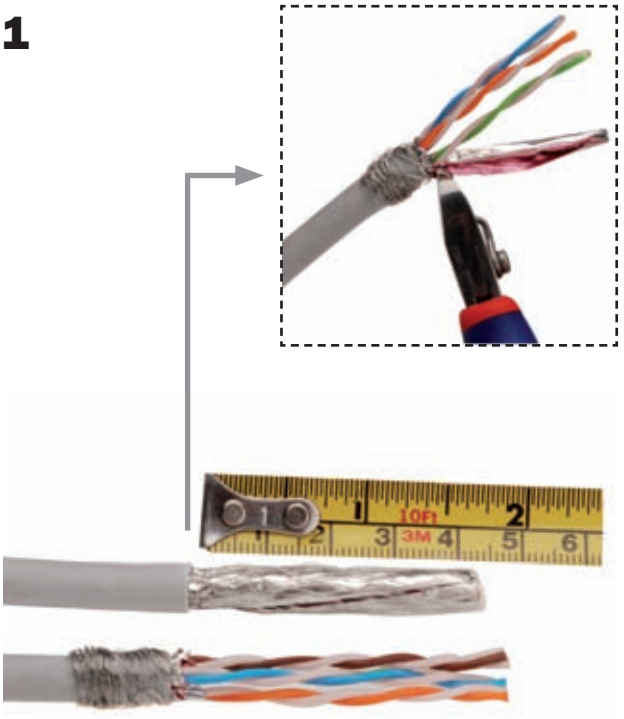
245131 / DN-93612
CAT 6A De Embedded Keystone jack, toolless, shielded

245124 / DN-93602
CAT 6A De Embedded Keystone jack, toolless, unshielded

Discover the simple Network Installation

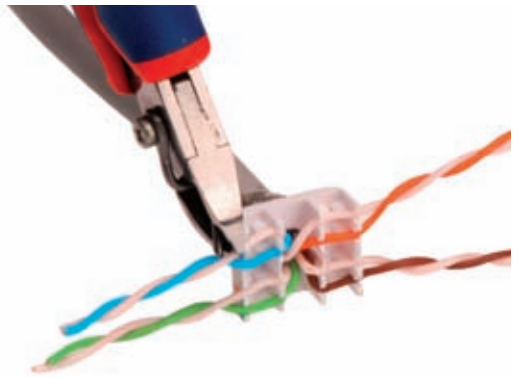
with toolfree CAT 6_A Keystone Jacks from DIGITUS®

1



Strip approximately 4cm of the cable jacket.

2



Follow the color code to place the wires into the cap slots. Keep the pairs twisted as possible and cut of the surplus wires.

Puchdown Sequences:

T568A	T568B
Pin 5 White / Blue	Pin 5 White / Blue
Pin 4 Blue	Pin 4 Blue
Pin 1 White / Green	Pin 1 White / Orange
Pin 2 Green	Pin 2 Orange
Pin 3 White / Orange	Pin 3 White / Green
Pin 6 Orange	Pin 6 Green
Pin 7 White / Brown	Pin 7 White / Brown
Pin 8 Brown	Pin 8 Brown

3

Put the cap into Keystone Jack according to the color code.

4

Lock the side caps of the Keystone Jack.

5

Fix the Keystone Jack with a cable tie.

DN-93612
CAT 6_A Certification

DN-93612
CAT 6 De Embedded Certification

DN-93602
CAT 6 De Embedded Certification

DIGITUS® Class E CAT 6 RJ45 modular coupler, shielded

- 2x RJ45 socket
- Suitable for panel connection

245186 / DN-93613
CAT 6, RJ45 Modular Coupler, shielded

DIGITUS® CAT 5e RJ45 modular coupler, shielded

- 2x RJ45 socket
- Suitable for panel connection

245179 / DN-93513
CAT 5e, RJ45 Modular Coupler, shielded

Wallplate for keystone jacks, german design

- For connection of Keystone Jacks
- 2 port incl. dust cover
- Coverframe 80x80 mm incl. central frame 50x50 mm
- Expandable with surface mountbox DN-93803
- White RAL 9010

222361 / AT-AG KEY-S-FP
2 port wallplate for Keystone Modules, german system

DIGITUS® Wallplate for keystone modules, french design

- For connection of Keystone Jacks
- 2 port incl. dust cover
- Cover frame 80x80 mm, incl. central frame 2x22,5 mm
- White RAL 9010
- Expandable with surface mountbox DN-93803

259350 / DN-93802
2 Port Wallplate for Keystone Modules incl. shutter, french system

Surface mountbox 80/80mm

- Compatible with DIGITUS® outlets, keystone faceplates 80x80mm
- White RAL 9010

259367 / DN-93803
Surface Mount Box 80x80mm

DIGITUS® Wallplate for keystone modules, british design

- For connection of keystone jacks
- 2 port
- 45° angle for plug insterted to maintain safe cable bend radius
- Full shielded metal structure for grounding
- 86/86mm frame + 2x22,5mm central frame
- White color RAL 9005
- Expandable with Surface mountbox DN-93806

259381 / DN-93805
2 Port Wallplate for Keystone Modules incl. shutter

Surface mountbox 86/86mm

- Compatible with DIGITUS® outlets, keystone faceplates 86x86mm
- White RAL 9010

259374 / DN-93806
Surface Mountbox 86/86mm

Desktop housing for keystone jacks

- Plastic housing for 6 keystone jacks
- White RAL 9005

259411 / DN-93705
Desktop Housing for Keystone Jacks

19" Housing for shielded keystone jacks, incl. cable management

- Universal applicable for RJ45 and fiber optic keystone jacks
- Grey RAL 7035
- 1U

222354 / A-PAN-24-MOD-S
Modular housing, 24 port, 1U

19" Housing for shielded keystone jacks, incl. cable management

- Universal applicable for RJ45 and fiber optic keystone jacks
- Black RAL 9005
- 1U

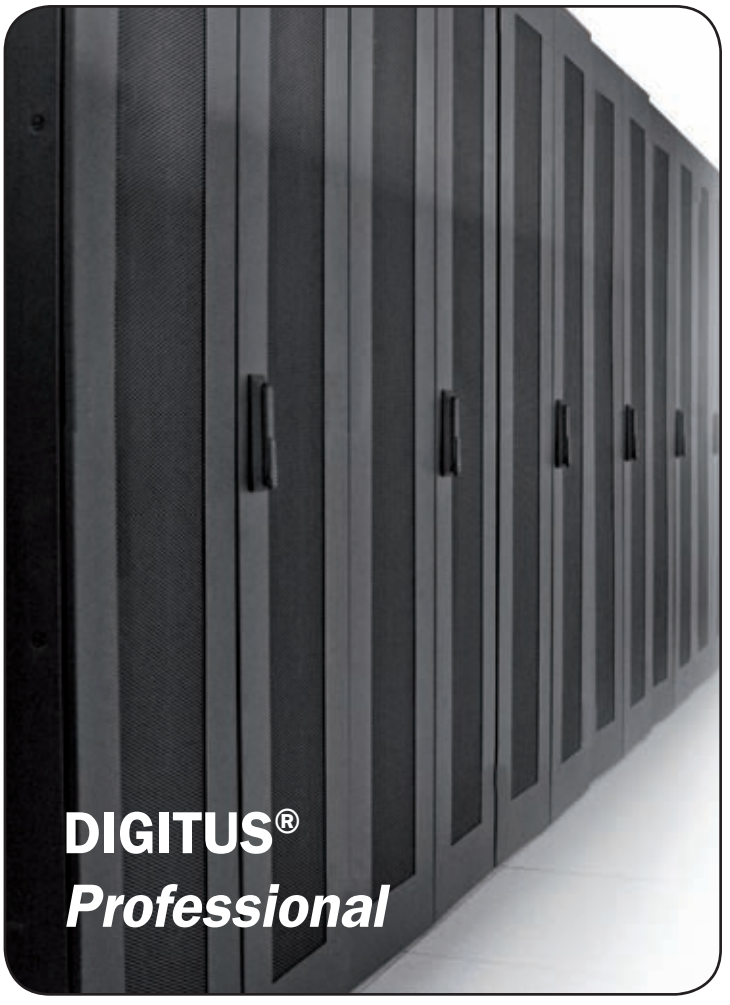
256281 / A-PAN-24-MOD-S-B
Modular housing, 24 port, 1U

19" Housing for keysone jacks, unshielded

- Universal applicable for RJ45 and Fiber optic keystone jacks
- Black RAL 9005
- 1U

157441 / A-PAN-16-MOD
Modular - housing, 16 port, 1U

157465 / A-PAN-24-MOD
Modular - housing, 24 Port, 2U



Class E CAT 6 RJ45 modular plug for round cable

- Class E, up to 250 MHz

132936 / A-MO6 8/8 SRS
8P8C, Shielded

132929 / A-MO6 8/8 SR
8P8C, unshielded

Hirose RJ 45 modular plug for round cable

- Shielded with strain relief and black hood

184720 / A-MO 8/8 HRS
Modular plug, CAT 5e, inkl. cumb and boot

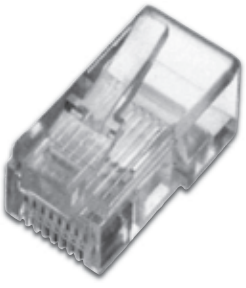
132943 / A-MO6 8/8 HRS
Modular plug, CAT 6, inkl. cumb and boot

CAT 5e Modular plugs for round cable

- CAT 5e up to 100Mhz

065180 / A-MO 8/8 SRS
Modular plug for roand cables, RJ45 8P8C, shielded, CAT 5e

Modular plugs for flat cable, unshielded



065104 / A-MO 4/4 SF
RJ11 4P4C, unshielded

065111 / A-MO 6/4 SF
RJ12 6P4C, Unschielded

065135 / A-MO 6/6 SF
RJ12 6P6C, Unschielded

065159 / A-MO 8/8 SF
RJ45 8P8C Unshielded

Modular plugs for round cable, unshielded

.

057949 / A-MO 4/4 SR
RJ11 4P4C, unshielded

057956 / A-MO 6/4 SR
RJ12 6P4C, unschielded

057963 / A-MO 6/6 SR
RJ12 6P6C, unshielded

065173 / A-MO 8/8 SR
RJ45 8P8C, unshielded

Kink protection boot for RJ45 plugs

- For 8P8C RJ45 modular plugs
- Suitable for shielded and unshielded modular plugs

065197 / A-MOT 8/8
black

065203 / A-MOT/B 8/8
blue

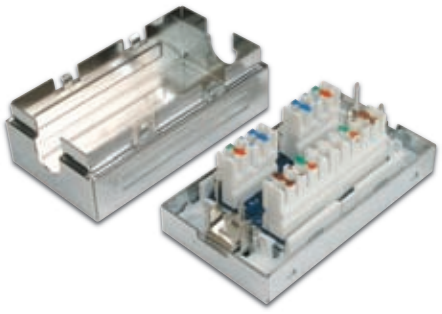
065210 / A-MOT/E 8/8
grey

065234 / A-MOT/R 8/8
red

065227 / A-MOT/G 8/8
green

065241 / A-MOT/Y 8/8
yellow

Twisted pair cables connection box



- Connection box in metal case
- Connection of twisted pair cables via LSA strips
- Integrated strain relief.

118657 / AT-ALSA-M
Connection box, CAT 5e

132837 / AT-ALSA6-M
Connection Box, CAT 6

Class E, CAT 6 modular coupler, shielded

- 2 x RJ-45 female
- Shielded version
- According to Link performance class E

132806 / AT-AG6 8/8
8P8C, CAT 6

132813 / AT-AG6 8/8CROSS
8P8C, CAT 6, Crossover

Cat 5e modular coupler, shielded

- 2 x RJ female
- Shielded version
- CAT 5e

066583 / AT-AG 8/8
Cat 5e Modular-Coupling, RJ45, 8P8C, shielded

132813 / AT-AG6 8/8CROSS
Cat 6 Modular-Coupling, 8P8C, Crossover

Modular coupler, unshielded

- 2 x RJ female
- Connection 1 : 1

066552 / AT-A 6/6
RJ12, 6P6C

066569 / AT-A 8/8
RJ45, 8P8C

CAT 5e Patchcable-Adapter, shielded

- AT-AG Cx2, CAT 5e, 1:1 assigned
- AT-AG Cx2 NEW assignment:
  CAT 5e, 1-1, 2-2, 3-3, 4-1, 5-2, 6-6, 7-3, 8-6

066590 / AT-AG CX2
CAT 5e Patch cable adapters, shielded

052364 / AT-AG CX2NEW
CAT 5e Patch cable adapters, shielded

CAT 5e modular coupler

- Three RJ45 sockets
- 8P8C
- CAT 5e

066576 / AT-AG 2X8/8
3 x RJ45 female, shielded

066668 / AT-AT 8/8
3 x RJ45 female, unshielded

19" IPC housing 2U

- 2 U Server housing
- Standard: 19" EIA (Electronic Industries Association)
- Drive slots: 1 x 5.25" & 7 x 3.5"
- Four PCI Slots, one USB 2.0 slot on the front
- Stable tempered metal construction
- Installation of max 13" mainboards are supported
- Four built-in 8cm fans
- Dimensions: 88mm(H) x 482mm(W) x 610mm(D)

200246 / AIPC-2S100B
19" IPC Housing,without power supply, black RAL 9005

200260 / AIPC-2S100B-300W
19" IPC Housing,Including power supply, black RAL 9005

19" IPC Housing 4U

- 4 U server housing
- Standard: 19" EIA (Electronic Industries Association)
- Drive slots: 3x 5.25", 7x3.5"
- Sturdy tempered metal construction
- Supports ATX, baby-AT and backplane mainboards
- Transverse stabiliser with two mounted 8cm fans built in
- 4 PCI Slots
- Switch: power on/off, system reset, USB2.0
- Dimensions 175mm(H) x 483mm(W) x 431mm(D)

200284 / AIPC-4S200
19" IPC Housing 4U, Without power supply, grey RAL 7035

200314 / AIPC-4S200-300W
19" IPC Housing, Including power supply, grey RAL 7035

19" IPC Housing 4U

- 4U server housing
- Standard: 19" EIA (Electronic Industries Association)
- Drive slots: 3x 5.25", 7x3.5"
- Sturdy tempered metal construction
- Supports ATX, baby-AT and backplane mainboards
- Transverse stabiliser with two mounted 8cm fans built in
- 4 PCI Slots
- Switch: power on/off, system reset, USB2.0
- Dimensions 175mm(H) x 483mm(W) x 431mm(D)

200291 / AIPC-4S200B
19" IPC Housing 4U, Without power supply, black RAL 9005

200307 / AIPC-4S200B-300W
19" IPC Housing 4U, including power supply, black RAL 9005

SAS connection cable

This internal cable connects SAS (Serial Attached SCSI) devices to a SAS controller.

SAS 29-pin plug (SFF-8482) - SAS 29-pin plug (SFF-8482)
- Molded housing
- Color: red

258438 / DK-127001
0,50 m

SAS - SATA connection cable

SAS 29-pin plug (SFF-8484) - 2x SATA 7-pin plug + 5,25" power plug

- Molded housing
- Color: red

258445 / DK-127002
0,50 m

SAS connection cable

This internal cable connects SAS (Serial Attached SCSI) devices.

SAS 32-pin plug (SFF-8484) - SAS 32-pin plug (SFF-8484)
- Molded housing
- Color: red

258452 / DK-127003
0,50 m

SAS connection cable

This internal cable connects four SAS (Serial Attached SCSI) devices to a SAS controller.

SAS 32-pin plug (SFF-8484) - 4x SAS 29-pin plug + 5,25" power plug

- Molded housing
- Color: red

258469 / DK-127004
0,50 m

SAS - SATA connection cable

This cable connects four Serial ATA devices to a SAS (Serial Attached SCSI) controller.

SAS 32-pin plug (SFF-8484) - 4x SATA 7-pin plug

- Molded housing
- SATA plugs with metal latch
- Color: red

258476 / DK-127005
0,50 m

SAS - SATA connection cable

This internal cable connects four Serial ATA devices to a SAS (Serial Attached SCSI) controller.

SAS 32-pin plug (SFF-8484) - 4x SATA 7-pin plug + 6-pin LED jack

- Molded housing
- SATA plugs with metal latch
- LED power connection cable for drive cage LEDs (2 x 3-pin female header)
- Color: red

258520 / DK-127007
1,0 m

258483 / DK-127006
0,50 m

SAS connection cable

This internal cable connects SAS (Serial Attached SCSI) devices.

Mini SAS 36-pin plug (SFF-8087) - Mini SAS 36-pin plug (SFF-8087)
- Molded housing
- SFF-8087 plugs with metal latch
- Color: red with meshwork tupe

258551 / DK-127008
0,50 m

SAS connection cable

This internal cable connects (Serial Attached SCSI) devices.

Mini SAS 36-pin plug (SFF-8087) - SAS 32-pin plug (SFF-8484)
- Molded housing
- SFF-8087 plug with metal latch
- Color: red with meshwork tupe

258575 / DK-127009
0,50 m

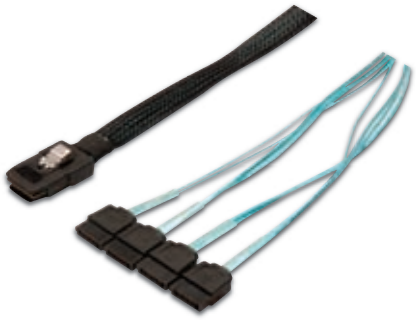
SAS - SATA connection cable

This internal cable connects four Serial ATA devices to a SAS (Serial Attached SCSI) device.

Mini SAS 36-pin plug (SFF-8087) - 4x SATA 7-pin plug
- Molded housing
- SFF-8087 plug with metal latch
- Color: red

258582 / DK-127010
0,50 m

SAS - SATA connection cable



This internal cable connects four Serial ATA devices to a SAS (Serial Attached SCSI) device.

Mini SAS 36-pin plug (SFF-8087) - 4x SATA 7-pin plug

- Molded housing
- All plugs with metal latch
- Color: transparent/blue with meshwork tupe

258599 / DK-127011
0,50 m

SAS connection cable

This internal cable connects SAS (Serial Attached SCSI) devices.

Mini SAS 36-pin plug (SFF-8087) - SAS 29-pin plug (SFF-8482) + 4x 5,25" power plug

- Moulded housing
- SFF-8087 plug with metal latch
- Color: black

258605 / DK-127012
0,50 m

SAS connection cable

This external Infiniband cable connects SAS (Serial Attached SCSI) devices.

SAS Infiniband plug (SFF-8470) - SAS Infiniband plug (SFF-8470)

- Metal housing
- Color: black

258612 / DK-127013
1,0 m

SAS connection cable

This external cable connects SAS (Serial Attached SCSI) devices.

Mini SAS 26-pin plug (SFF-8088) - Mini SAS 26-pin plug (SFF-8088)

- Metal housing
- Color: black

258629 / DK-127014
1,0 m

SAS connection cable

This external cable connects SAS (Serial Attached SCSI) devices.

SAS Infiniband plug (SFF-8470) - Mini SAS 26-pin plug (SFF-8088)

- Metal housing
- Color: black

258636 / DK-127015
1,0 m

SAS connection cable

This external cable connects SAS (Serial Attached SCSI) devices.

ini SAS 26-pin plug (SFF-8088) - Mini SAS 36-pin plug (SFF-8087)

- SFF-8088 plug metal housing
- SFF-8087 plug molded housing
- Color: transparent/blue

258643 / DK-127016
1,0 m

SAS - eSATA connection cable

This external cable connects four Serial ATA devices to a SAS (Serial Attached SCSI) device.

Mini SAS 26-pin plug (SFF-8088) - 4x eSATA 7-pin plug

- eSATA plugs with molded housing
- SFF-8088 plug with metal housing
- Color: transparent/blue

258650 / DK-127017
1,0 m