

## DIGITUS® Category 6, Class E, S/FTP Twisted Pair Patch Cable, Outdoor - FRPE



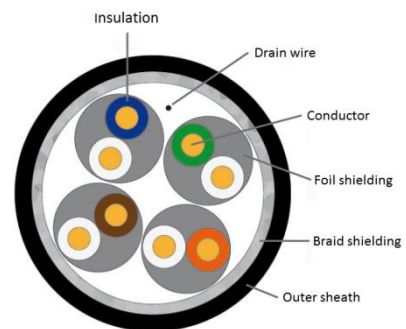
- ✓ Flame Retardant Polyethylene
- ✓ black FRPE outer sheath, UV resistant
- ✓ incl. drain wire
- ✓ Boots with kink protection

### Abstract

DIGITUS® CAT 6, Class E, S/FTP Outdoor Patch Cable, Cu, FRPE, AWG 27/7, black outer sheath color

### Features

- 2x RJ45 connectors
- Boots with kink protection, strain reliefs and latch protection
- Spot length on boot
- Conductor: Cu
- Category 6, Class E
- Shielding: S/FTP, incl. drain wire
- Structure: 4x 2 AWG 27/7, twisted pair
- Configuration: 1:1
- Sheath: FRPE (Flame Retardant Polyethylene)
- UV resistant
- Operating temperature: -30 °C up to +80 °C



### Product Overview

The new DIGITUS® Category 6 Class E S/FTP patch cables are manufactured and tested to the ISO/IEC 11801 and DIN EN 50173 Category 6 Class E specifications. DIGITUS® patch cables will guarantee the installed cabling system is compliant with the ISO & EN channel specification requirements and will provide optimum performance levels of DIGITUS® Category 6 Class E cabling.

With its UV resistant FRPE sheath, this outdoor patch cable will ensure a secure installation in areas with a lot of temperature fluctuation and sun expose. Furthermore the drain wire will work as a lightning arrester.

### Performance Overview

DIGITUS® Category 6 Class E S/FTP patch cables are manufactured acc. to ISO/IEC and DIN standards. The performance characteristics are tested up to 250 MHz inclusive the NEXT and ELFEXT return loss. DIGITUS® patch cables are designed and produced to fulfill the highest requirements of various application areas in full volume.

## Performance- and Specification Overview

Conductor	AWG 27/7 bare copper, 7/0.140 ± 0.005 mm
Color code	Orange x White, Green x White, Blue x White, Brown x White
Insulations	PE (Polyethylene)
Outer sheath	FRPE (Flame Retardant Polyethylene)
Overall diameter	6.0 mm ± 0.2 mm
RJ45 connector	3 µ minimum gold-plated in confined area (gold flash over remainder) over 60 µ nickel undercoat
Durability	750 insertion cycles
Contact resistance	230 Ω maximum
Resistance unbalance	2% maximum
Dielectric strength	AC-500V/MIN
Uninsulated resistance	150 MΩ/km minimum
Operating temperature	-30 °C up to +80 °C
Marking	Brand name, cable length and cable information

## Transmission Properties

Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACRF
MHz	dB	dB	dB	dB	dB	dB	dB	dB
1.00	4.00	65.00	19.00	61.00	63.30	62.00	58.00	60.30
4.00	4.20	63.00	19.00	58.90	51.20	60.50	56.40	48.20
8.00	5.90	58.20	19.00	52.30	45.20	55.60	49.70	42.20
10.00	6.60	56.60	19.00	50.00	43.30	54.00	47.40	40.30
16.00	8.30	53.20	18.00	44.90	39.20	50.60	42.30	36.20
20.00	9.30	51.60	17.50	42.30	37.20	49.00	39.70	34.20
25.00	10.50	50.00	17.00	39.60	35.30	47.30	36.90	32.30
31.25	11.70	48.40	16.50	36.70	33.40	45.70	34.00	30.40
62.50	16.90	43.40	14.00	26.50	27.30	40.60	23.70	24.30
100.00	21.70	39.90	12.00	18.20	23.30	37.10	15.40	20.30
200.00	31.70	34.80	9.00	3.10	17.20	31.90	0.10	14.20
250.00	35.90	33.10	8.00	-2.80	15.30	30.20	-5.80	12.30

The results of the chart above are typical for Category 6, Class E patch cables 2 m, 5 m up to 10 m length (DK-1644-xxx)

## Product Number Information

DK-1644-010/BL-OD	CAT 6 S/FTP outdoor patch cable, Cu, FRPE, AWG 27/7, length 1 m
DK-1644-020/BL-OD	CAT 6 S/FTP outdoor patch cable, Cu, FRPE, AWG 27/7, length 2 m
DK-1644-030/BL-OD	CAT 6 S/FTP outdoor patch cable, Cu, FRPE, AWG 27/7, length 3 m
DK-1644-050/BL-OD	CAT 6 S/FTP outdoor patch cable, Cu, FRPE, AWG 27/7, length 5 m
DK-1644-100/BL-OD	CAT 6 S/FTP outdoor patch cable, Cu, FRPE, AWG 27/7, length 10 m

### Length Tolerances

Length (m)	Tolerance (mm)
1.00	+/- 20
2.00	+/- 20
3.00	+/- 30
5.00	+/- 50
10.00	+/- 100

### Technical Drawing

