



Application

- Horizontal Patch Cable
- Support current **Category 5e** applications, such as: 10 Base-T, 100 Base-T, FDDI, ATM

Standards

- General standards: **ISO/IEC 11801, EN 50173, TIA/EIA 568-B.2**

Construction & Dimensions

- Construction: shielded 4 twisted pairs
- Conductor: stranded bare copper (7 x 0.16 mm)
- Conductor diameter: AWG 26 (0,48 mm)
- Conductor insulation material: Foam skin Polyethylene (PE)
- Diameter over insulation: 0,98mm ± 0.05 mm
- Drainwire: Tinned copper, 7 x 0.16 mm
- Shield: Aluminium/polyester foil
- Jacket material: PVC (Flame retardant)
- Outer diameter: 5.2 mm ± 0.2 mm

Electrical characteristics (at 20 °C)

Attenuation

Frequency	1	4	10	16	20	31.25	62.5	100	MHz
Spec. (Max.) ¹⁾	0,3	0,6	1,0	1,2	1,4	1,8	2,6	3,3	dB/10m

NEXT (Near end crosstalk)

Frequency	1	4	10	16	20	31.25	62.5	100	MHz
Spec. (Min.) ¹⁾	62	53	47	44	42	40	35	32	dB

ACR

Frequency	1	4	10	16	20	31.25	62.5	100	MHz
Spec. (Min.) ¹⁾	62	52	46	43	41	38	32	29	dB/10m

¹⁾: Specification values according to cable requirements of ISO/IEC 11801

Electrical characteristics (at 20 °C)

Nominal mutual capacitance at 1 kHz	50 nF/km
Maximum conductor DCR	135 Ohm/km
NVP - Nominal Velocity of Propagation	0.75 c
SKEW – Propagation delay difference (100 MHz)	typical ≤ 40 ns/100m
Impedance 1 - 100 MHz	100 ± 15 Ohm

Product Datasheet

P/N - 43054 Rev. 1

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Belden 1868E**FLEX CAT 5e FTP PVC**

General and environmental characteristics

Temperature range - operation	-20°C - +60°C
Temperature range - installation	+0°C - +50°C
Minimum bending radius - operation	20 mm
Minimum bending radius - installation	40 mm
Maximum pulling tension	80 N
Flame retardancy	IEC 332-1
Energy of flame	300 kJ/m
Weight (approx.)	27 kg/km
Maximum operating voltage	48 V rms
Maximum continuous current per conductor (25°C)	1.0 A

Ordering information

MARKING

Text on the cable jacket Inkjet printing

BELDEN 1868E (5) FLEX FTP CAT5E 4PR AWG26 ISO/IEC 11801 EN 50173 100 OHM

Meter marking: Yes

PAIR COLOR CODE

Pair 1:	Blue-Black Ringband/Blue
Pair 2:	Orange-Black Ringband/Orange
Pair 3:	Green-Black Ringband/Green
Pair 4:	Brown-Black Ringband/Brown

JACKET COLOUR

Colour	RAL code	Belden colour code
Grey	RAL 7032	2620
Blue	RAL 5010	2623

PACKAGING (PUT UP)

Belden code	Delivery length	Weight	Remark
43054 xxxx 000	500 m	13,5 kg	Non returnable reel
43054 xxxx 250	1000 m	27,0 kg	Non returnable reel

xxxx: Belden colour code