

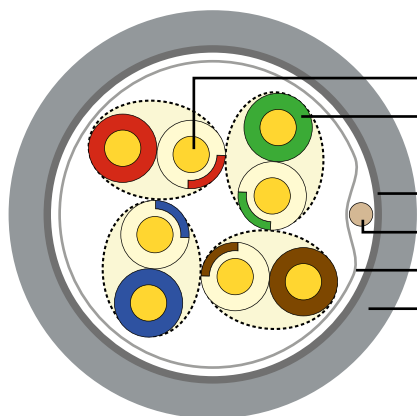
Multicore and symmetrical twisted pair cable for digital communications:

• Type **Cat. 5e F/UTP 4x2x24AWG PE** is designed for structured cabling networks with external laying along the walls of buildings, constructions, in mines and collectors. This cable type can operate at frequencies up to 100 MHz in conditions of increased electromagnetic action.



Cable structure

- **Conductor:** Copper wire 24 AWG
- **Insulation:** HDPE in compliance with TIA 568 insulation colour coding
- **Screen:** Al-Pet tape min. 100% coverage
- **A tinned copper drain wire, Ø 26AWG**
- **Pet tape** min. 100% coverage
- **Sheath:**
PE RAL 9011 Black



Standards

ISO/IEC 11801-1, IEC 61156-5

EN 50288-2-1

ANSI EIA/TIA 568.2-D

Datasheet

Cat.5e F/UTP, PE Outdoor, 4x2x24 AWG

Specifications

Temperature range: fixed.....	-20°C...+60°C
flexing.....	0°C...+50°C
Bending radius: fixed.....	min. 4 x D
flexing.....	min. 8 x D
Tensile strength.....	max. 85 N
Crushing strength.....	min. 1000 N/10 cm
Impact strength.....	min. 10 impacts
Conductor resistance.....	max. 96 Ω/km
Resistance imbalance.....	max. 2%
Insulation resistance.....	min. 5000 MΩ x km
Capacitance.....	max. 56 pF/m
Capacity imbalance.....	max. 1600 pF/km
Velocity of propagation.....	67-69%
Propagation delay.....	max. 537 ns/100 m
Signal delay.....	max. 45 ns/100 m
Test voltage.....	1000 V
Operating voltage.....	max. 72 V
TCL min. «Level 2»	
Coupling attenuation «Type II»	
Transfer impedance «Class 2»	

Frequency [MHz]	Attenuation [dB/100 m]	NEXT [dB]	PS-NEXT [dB]	ACR [dB/100 m]	PS-ACR [dB/100 m]	ACR-F [dB/100 m]	PS-ACR-F [dB/100 m]	RL [dB]
	max.	min.	min.	min.	min.	min.	min.	min.
1	2,1	65,3	62,3	63,2	60,2	64,0	61,0	20,0
4	4,1	56,3	53,3	52,2	49,2	52,0	49,0	23,0
10	6,5	50,3	47,3	43,8	40,8	44,0	41,0	25,0
16	8,3	47,2	44,2	39,0	36,0	39,9	36,9	25,0
20	9,3	45,8	42,8	36,5	33,5	38,0	35,0	25,0
31.25	11,7	42,9	39,9	31,1	28,1	34,1	31,1	23,6
62.50	17,0	38,4	35,4	21,4	18,4	28,1	25,1	21,5
100	22,0	35,3	32,3	13,3	10,3	24,0	21,0	20,1

Cable structure	Diameter, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m	CPR
Cat.5e F/UTP 4x2x24 AWG PE	5,9	35	Black	500	Fca