

Category 5e F/UTP EuroClass Dca Cables

Datasheet: GD103437v4



APPLICATION

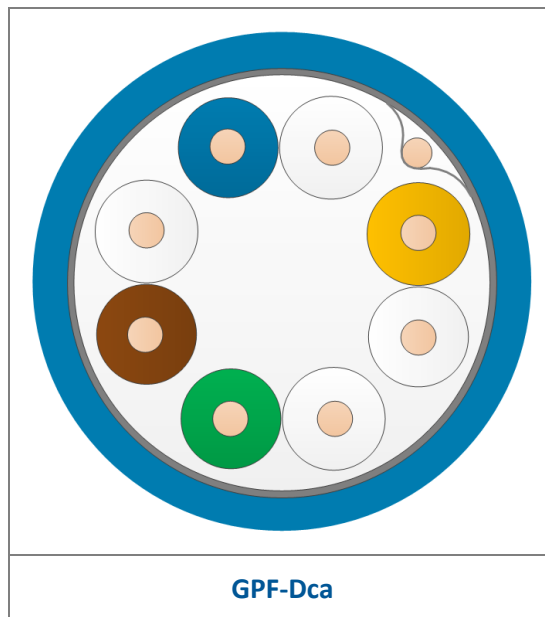
Leviton Category 5e F/UTP cables exceed the Category 5e performance standards. They are rated to 100MHz and are suitable for use in all Class D structured wiring cable systems. Category 5e F/UTP cables supports Gigabit Ethernet, Power over Ethernet and voice transmissions at frequencies up to 100MHz.

FEATURES AND BENEFITS

- 24 AWG solid annealed copper wire
- 4 unshielded twisted pairs cabled together
- Aluminium polyester screen
- Designed to support all Class D protocols including Gigabit Ethernet
- HFFR-LS* jacket material meets the requirements of the Construction Products Regulation (CPR) EuroClass Dca
- Blue† jacket to identify EuroClassification level Dca
- Included in the Leviton Limited 25-Year System Warranty when used in conjunction with Leviton copper connectivity. System warranties are available for qualified projects installed by certified contractors.

* Halogen Free Flame Retardant – Low Smoke

† Also available in a range of non-standard colors



STANDARDS

- Designed and constructed to give optimum electrical performance to the following standards:
 - ISO/IEC 11801 Class D, IEC 61156-5
 - EN50173-1 and EN 50288-2-1
 - ANSI/TIA 568C.2
- Supports Gigabit Ethernet
- Supports Power over Ethernet (PoE) and Power over Ethernet Plus (PoE+) applications

REACTION TO FIRE

CHARACTERISTIC	STANDARD	RATING
Single Cable Flame Rating	IEC 60332-1-2	Pass
Bundled Cable Flame Rating	EN 50399 20.5kW source	Dca
Smoke Production	EN 50399	s2
Flaming Droplets/Particles	EN 50399	d1
Acid Gas Emission/Acidity	EN 50267-2-3	a1
EuroClassification	EN 13501-6	Dca s2 d1 a1

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PRIMARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Conductor Loop Resistance	Max 19Ω/100m	16Ω/100m
Conductor Resistance Unbalance	Max 2%	0.1%
Insulation Resistance	>5GΩ.km	>310GΩ.km
Dielectric Strength	2500 Vdc/2secs	Pass

SECONDARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Propagation Delay	<534nsec/100m @ 100MHz	480nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @100MHz	11nsec/100m @100MHz
Mean Characteristic Impedance	100Ω +/- 5Ω @ 100MHz	100Ω +/- 3Ω @ 100MHz
Transfer Impedance	Grade 2	14mΩ/m @ 10MHz

ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	16	20	31.25	100	200	250
Insertion Loss (dB/100m)	Standard	2.1	4.0	6.3	8.0	9.0	11.4	21.4	N/A	N/A
	Typical	2.0	3.8	6.0	7.6	8.6	10.8	20.4	30.3	34.5
NEXT (dB)	Standard	65.3	56.3	50.3	47.2	45.8	42.9	35.3	N/A	N/A
	Typical	73.3	64.3	58.3	55.2	53.8	50.9	43.3	38.8	37.3
PSNEXT (dB)	Standard	62.3	53.3	47.3	44.2	42.8	39.9	32.3	N/A	N/A
	Typical	70.3	61.3	55.3	52.2	50.8	47.9	40.3	35.8	34.3
ELFEXT (dB/100m)	Standard	63.8	51.8	43.8	39.7	37.8	33.9	23.8	N/A	N/A
	Typical	78.8	66.8	58.8	54.7	52.8	48.9	38.8	32.8	30.8
PSELFEXT (dB/100m)	Standard	60.8	48.8	40.8	36.7	34.8	30.9	20.8	N/A	N/A
	Typical	76.8	64.8	56.8	52.7	50.8	46.9	36.8	30.8	28.8
Return Loss (dB)	Standard	N/A	23.0	25.0	25.0	25.0	23.6	20.1	N/A	N/A
	Typical	25.0	28.0	30.0	30.0	30.0	28.6	25.1	23.0	22.3
ACR (dB/100m)	Typical	71.3	60.5	52.3	47.6	45.2	40.0	22.9	8.5	2.9
PSACR (dB/100m)	Typical	68.3	57.5	49.3	44.6	42.2	37.0	19.9	5.5	-0.1

INSTALLATION

Temperature (Installation)	0°C to +50°C
Temperature (Operation)	-20°C to +75°C
Max Tensile Load (Installation)	10kg
Segregation Class	Class C

Min Bend Radius (Installation)	8 x Outer Diameter
Min Bend Radius (Operation)	4 x Outer Diameter
Field Test NVP Value	0.68

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PRINT LEGEND

Example print legend:

[Length Mark]m BRAND-REX a LEVITON company GPF-Dca Cat 5e F/UTP EN 50399 Euroclass Dca s2 d1 a1 NVP 0.68
MADE IN UK [ID number] [Week/Year]

STANDARD PACKAGING SPECIFICATIONS

Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet
GPF-Dca-500BU	500	Blue†	6.1	40.0	400 x 315	22.0	18
GPF-Dca-1000BU	1000	Blue†	6.1	40.0	465 x 390	43.1	6

†Also available in a range of non-standard colors

*“Leviton is **dedicated to designing, developing and manufacturing** sustainable **high performance** structured cabling and speciality **cabling solutions**”*

The information contained in this document is valid and correct at the time of issue. Leviton reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.