

# PROFINET 663 PLTC continuously flexible application, type C, UL & PLTC approval






ELETTROTEK KABEL® PROFINET 663 PLTC

## Construction:

<b>CONDUCTOR:</b>	STRANDED TINNED COPPER CONDUCTOR. 7 WIRES
<b>INSULATION:</b>	PE COMPOUND
<b>COLOUR CORES:</b>	WHITE, YELLOW, BLUE, ORANGE
<b>STRANDING:</b>	CORES TWISTED TO A QUAD
<b>WRAPPING:</b>	PLASTIC TAPE (OPTIONAL)
<b>INNER SHEATH</b>	EXTRUDED COMPOUND
<b>SCREEN:</b>	PLASTIC LAMINATED ALUMINIUM FOIL AND TINNED COPPER WIRES BRAID
<b>OUTER SHEATH:</b>	GREEN (SIMILAR RAL 6018), PVC COMPOUND

## Resistance:

	<b>SELF-EXTINGUISHING AND FLAME RETARDANT ACC. TO:</b> IEC 60332-1-2 IEC 60332-3-24 UL 1581 AND UL 2556 CSA FT1 / FT2 UL 1685 AND UL 2556 CSA FT4
	<b>OIL RESISTANCE ACC. TO:</b> OIL RESISTANCE 1 ACC. TO UL 2556
	<b>UV RESISTANCE ACC. TO :</b> UL1581 AND UL 2556

## Technical data:

<b>NOMINAL VOLTAGE UL:</b>	600 V (peak, not for connection to public mains)
<b>OPERATING VOLTAGE:</b>	Max. 125 V (peak, not for connection to public mains)
<b>TEST VOLTAGE:</b>	2 KV AT 50 HZ for 1 Min. (core/core and core/screen)
<b>TEMPERATURE RANGE:</b>	
FIXED LAYING:	-40 UP TO+80°C
FLEXIBLE INSTALLATION:	-10 UP TO+70°C
FLEXIBLE INSTALLATION:	-10 UP TO+60°C (WITH FORCED GUIDANCE)
INSTALLATION:	-5 UP TO+70°C
<b>MIN. BENDING RADIUS:</b>	
FIXED LAYING:	4 x D
FLEXIBLE INSTALLATION:	8 x D
FLEXIBLE INSTALLATION:	15 x D (WITH FORCED GUIDANCE)
<b>CHARACTERISTIC IMPEDANCE:</b>	100Ω ± 50 AT 100 MHZ
<b>LOOP RESISTANCE:</b>	MAX. 118,8 Ω/KM
<b>INSULATION RESISTANCE:</b>	MIN. 5 GΩ*KM
<b>CAPACITANCE:</b>	50 NF/KM
<b>RF CHARACTERISTICS:</b>	CAT. 5E
<b>REL. PROPAGATION SPEED:</b>	65% AT 100 MHZ
<b>DELAY SKEW:</b>	MAX. 20 NS/M
<b>TENSILE STRENGTH:</b>	
FIXED LAYING:	MAX. 125 N
FLEXIBLE INSTALLATION:	MAX. 35 N
<b>MIN. BENDING CYCLE:</b>	2.500.000

## Features:

- (UL) LISTING TYPE PLTC 75°C ACC. TO UL 13 FOR USA
- C(UL)US LISTING TYPE CMG 75°C ACC. TO UL 444 FOR USA AND CANADA
- C(UR)US RECOGNITION AWM STYLE 21695 80°C 600 V ACC. TO UL 758 FOR USA AND CANADA
- ROHS AND CE APPROVAL



Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		Return Loss (dB)	
	Std.	Max.	Std.	Min	Std.	Min.
4	3,9	4,1	77,5	56,3	37,2	23
10	6,1	6,5	74,1	50,3	43,1	25
16	7,8	8,3	72,8	47,2	43,1	25
20	8,7	9,3	70,5	45,8	44,8	25
31,25	11,1	11,7	69,1	42,9	41,8	23,6
62,5	16,4	17	66,4	38,4	36,09	21,5
100	21,5	22	59,4	35,3	32,3	20,1

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
39260FEX022A22	2 x 2 x 0,34	6,5	32	74	22