

PROFINET 655 PLTC fixed installation, type A, UL approval






ELETTROTEK KABEL® PROFINET 655



Construction:

CONDUCTOR:	SOLID BARE COPPER CONDUCTOR
INSULATION:	PE COMPOUND
COLOUR CORES:	WHITE, YELLOW, BLUE, ORANGE
STRANDING:	CORES STRANDED TO A QUAD
WRAPPING:	PLASTIC TAPE
INNER SHEATH:	PVC COMPOUND
1ST SCREEN:	PLASTIC / ALUMINIUM FOIL
2ND SCREEN:	TINNED COPPER BRAID WIRES
OUTER SHEATH:	GREEN (SIMILAR RAL 6018), PVC COMPOUND

Resistance:

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

Technical data:

NOMINAL VOLTAGE UL:	600 V (peak, not for connection to public mains)
OPERATING VOLTAGE:	Max. 125 V (peak, not for connection to public mains)
TEST VOLTAGE:	2 KV AT 50 HZ FOR 1 Min. (core/core and core/screen)
TEMPERATURE RANGE:	
FIXED LAYING:	-40 UP TO +80°C
INSTALLATION:	-5 UP TO +70°C
MIN. BENDING RADIUS:	
FIXED LAYING:	4 x D
CHARACTERISTIC IMPEDANCE:	100Ω ± 5%
TRANSFER IMPEDANCE:	GRADE 1
FOR 1 MHZ:	8 mΩ
FOR 10 MHZ:	1 mΩ
FOR 100 MHZ:	2 mΩ
COUPLING ATTENUATION:	TYPE I
FOR 30 MHZ:	110 DB
FOR 100 MHZ:	105 DB
LOOP RESISTANCE:	MAX. 108,6 Ω/KM
INSULATION RESISTANCE:	MIN. 5 GΩ*KM
CAPACITANCE:	50 NF/KM
HF CHARACTERISTICS:	CAT. 5E
REL. PROPAGATION SPEED:	62% AT 100 MHZ
DELAYSKEW:	MAX. 20 NS/M
TENSILE STRENGTH:	MAX. 95 N

Features:

(UL) LISTING TYPE PLTC 75°C ACC. TO UL 444 FOR USA
C(UL)US LISTING TYPE CMG 75°C ACC. TO UL 444 FOR USA AND CANADA
C(UR)US RECOGNITION AWM STYLE 10988 / 21695 80°C 600 V ACC. TO UL 758 FOR USA AND CANADA
USE:
USA: internal wiring of appliances
CANADA: Internal/external potentially subject to mechanical abuse
LAN verified Cat 5e acc. to UL verified program for USA
ROHS AND CE APPROVAL



Frequency (MHz)	Attenuation (dB/100m) Std. - Max.	NEXT (dB) Std. - Min	Return Loss (dB)
			Std. - Min.
4	4 - 4,1	74,8 - 56,3	28,8 - 23
10	6,3 - 6,5	70 - 50,3	29,3 - 25
16	8 - 8,3	64,9 - 47,2	30,7 - 25
20	9 - 9,3	63,5 - 45,8	30,5 - 25
31,25	11,4 - 11,7	60,3 - 42,9	30,2 - 23,6
62,5	16,5 - 17	54,8 - 38,4	29,9 - 21,5
100	21,3 - 22	50,1 - 35,3	29,4 - 20,1

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. (*)
39225CEX022A22	2 x 2 x 0,34	6,5	32	-	22