

# TX 515 FLEX

## TRIAXIAL CABLE

<b>CW</b> 7 x 0,16 mm	<b>PE</b> ø 1,50 mm	<b>CS</b> ø 1,90 mm	<b>PVC2</b> ø 2,80 mm	<b>Pet/sp</b> h. 15 mm	<b>CU</b> ø 3,20 mm	<b>PVC2</b> ø 4,25 mm
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| A | B | C | D | E | F | G |

### MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	COPPERWELD	7 x 0,16 mm
<b>B</b>	<b>DIELECTRIC</b>	LOW DENSITY POLYETHYLENE	ø 1,50 ± 0,08 mm
<b>C</b>	<b>BRAID</b>	TINNED COPPER - COVERAGE	64 x 0,10 mm 88%
<b>D</b>	<b>1° SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 2,80 ± 0,13 mm
<b>E</b>	<b>NON-MIGRATING</b>	POLYESTER TAPE	h. 15 mm
<b>F</b>	<b>2° BRAID</b>	PLAIN COPPER - COVERAGE	128 x 0,10 mm 92%
<b>G</b>	<b>2° SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 4,25 ± 0,15 mm
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>SIVA TRIAX 515 FLEX TRIAXIAL CABLE</b>	

### MINIMUM BENDING RADIUS ( mm )

- SINGLE	ø EXTERNAL X 5
- REPEATED	ø EXTERNAL X 10

### CABLE WEIGHT ( Kg/Km )

- COPPER	15,6
- PLASTIC	15,8
- TOTAL	31,8

TEMPERATURE RANGE -30 °C / +70 °C

### ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE</b>	50 ± 2 Ohm
<b>CAPACITANCE</b>	100 pF/m
<b>VELOCITY RATIO</b>	66%

<b>RESISTANCE</b>	
- INNER CONDUCT.	282 Ohm/Km
- BRAID	39 Ohm/Km
- BRAID	17,3 Ohm/Km

### INSULATION RESISTANCE

- INNER CONDUCT. / 1° BRAID	>10 <sup>4</sup>	MOhm/Km
- 1° BRAID / 2° BRAID	>10 <sup>3</sup>	MOhm/Km

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	7,4	226
10	MHz	9,5	160
30	MHz	13,3	92
50	MHz	17,5	72
150	MHz	33,0	41
220	MHz	40,3	34

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
450	MHz	58,7	24
600	MHz	68,6	21
800	MHz	77,0	18
900	MHz	82,8	17
1000	MHz	87,5	16
1500	MHz	122,5	13

		<b>dB</b>	<b>W</b>
1800	MHz	135,0	12
2000	MHz	145,0	11
2500	MHz	165,5	10
3000	MHz	184,5	9
5200	MHz	267,5	7
5800	MHz	292,0	7

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>27	2000 ÷ 3000	MHz	>17
450 ÷ 1000	MHz	>23	3000 ÷ 4000	MHz	>17
1000 ÷ 2000	MHz	>21	4000 ÷ 5800	MHz	>16

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>76
900 ÷ 2000	MHz	
2000 ÷ 3000	MHz	

The producer reserves himself to make modification on the item without any notice.