

TWISTED PAIR DISTRIBUTION CABLES WITH MOISTURE BARRIER SHEATH TELEFONICA STANDARD

Telecommunications
cable

UV resistant



ROHS compliant

STANDARDS

Telefónica GT.ER.f5.001

DESCRIPTION AND APPLICATION

Cables from 2 to 2424 pairs, copper conductors with diameter from 0.4 to 0.91 and PE insulation, stranded into units and protected with a moisture barrier sheath. They are used as distribution cables.

CONSTRUCTION

- **Conductors:** Annealed copper, diameters of 0.40, 0.51, 0.64 and 0.91 mm.
- **Insulation:** Solid HDPE.
- **Cabling element:** Pairs.
- **Lay-up:** Up to 26 pairs in layers. Cables with more pairs in units of 25 pairs.
- **Core wrapping:** Longitudinal dielectric tape applied with overlapping.
- **Screen:** Copolymer coated aluminium tape longitudinally applied with overlap and bonded to the outer sheath.
- **Sheath:** Black polyethylene, UV resistant.
- **Sheath marking:** The outer sheath shall be marked at regular intervals with the following information:
 - Name of Manufacturer / year / Length markings
 - Other type of markings is also possible according to the customer



ELECTRICAL CHARACTERISTICS (20°C)	0,40	0,51	0,64	0,91
Maximum conductor Resistance (Ω/km)	144,2	89,5	56,6	28,5
Resistance unbalance (%) $100 \times (R_{max} - R_{min}) / (R_{min} + R_{max})$	Average: 1,5 % / Maximum 5,0 %			
Minimum insulation resistance ($M\Omega \times km$, 15°C, 500 V)	20000			
Mutual capacitance (nF/km, 800 Hz)	Average: 52±3 / Maximum 58			
Capacitance unbalance (pF/km, 800 Hz)				
Pair-pair	< 45rms (<12 pairs) / < 145 (>12 pairs)			
Pair-earth	Average: < 574 (>12 pairs) / maximum: < 2625			
Dielectric strength (Vdc, 3 s)				
conductor – conductor	2500	3000	3600	4500
conductor - screen	5000	5000	10000	10000

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TRANSMISSION CHARACTERISTICS (20°C)	0,40	0,51	0,64	0,91
<i>Nominal attenuation (dB/km)</i>				
0,8 KHz	1.64	1.30	1.04	0.74
3 KHz	3.18	2.52	2.01	1.42
150 KHz	11.4	8.30	6.20	4.40
1000 KHz	27.1	21.4	17.5	12.8
<i>PS Far End crosstalk (PSELFEXT, dB/305 m, 1000 KHz, 50 pairs)</i>				
Minimum average	44.5	46.2	46.5	48.2
Minimum value	40.4	40.4	40.4	42.4
<i>PS Near End crosstalk (PSNEXT, dB/305 m, 1000 KHz, 50 pairs)</i>				
Minimum average			45.2	
Minimum value			40.1	

MECHANICAL CHARACTERISTICS

Temperature range: from -25° C to +75° C

Minimum bending radius: 12 x R_{cable}

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DIMENSIONS AND WEIGHTS

Diameter : 0.40 mm					
Code	# Pairs	cable (mm)	Approx Weight. (kg/km)	Length (m)	Drum
EA2403041000602N	6	8.0	65	2000	J8
EA2403041000702N	7	8.0	70	2000	J8
EA2403041001102N	11	9.0	85	2000	A0
EA2403041001602N	16	10.0	105	2000	A0
EA2403041002102N	21	10.5	125	2000	A0
EA2403041002602N	26	11.0	145	2000	A0
EA2403041003102N	31	11.5	160	2000	A2
EA2403041005102N	51	13.5	230	2000	A2
EA2403041007602N	76	16.0	325	2000	A2
EA2403041010102N	101	18.0	405	2000	A4
EA2403041015202N	152	21.0	580	2000	A6
EA2403041020202N	202	24.0	755	2000	A8
EA2403041030302N	303	28.0	1075	2000	BB
EA2403041040402N	404	31.5	1390	1400	B0
EA2403041060602N	606	37.0	2015	1000	B0
EA2403041090902N	909	44.5	2965	700	B0
EA2403041121202N	1212	50.5	3880	500	B0
EA2403041151502N	1515	58.0	4830	400	BB
EA2403041181802N	1818	63.0	5745	300	BB
EA2403041212102N	2121	68.0	6665	300	BB
EA2403041222202N	2222	69.5	6960	300	BB
EA2403041242402N	2424	72.0	7575	300	BB

Diameter : 0.51 mm					
Code	# Pairs	cable (mm)	Approx Weight. (kg/km)	Length (m)	Drum
EA2403051000602N	6	9.0	80	2000	A0
EA2403051000702N	7	9.0	85	2000	A0
EA2403051001102N	11	10.0	115	2000	A0
EA2403051001602N	16	11.0	140	2000	A0
EA2403051002102N	21	12.0	170	2000	A2
EA2403051002602N	26	13.0	200	2000	A2
EA2403051003102N	31	13.5	225	2000	A2
EA2403051005102N	51	16.5	340	2000	A4
EA2403051007602N	76	19.5	480	2000	A6
EA2403051010102N	101	22.0	620	2000	A6
EA2403051015202N	152	26.0	885	2000	B0
EA2403051020202N	202	29.0	1140	1500	B0
EA2403051030302N	303	34.5	1640	1000	B0
EA2403051040402N	404	39.0	2140	900	B0
EA2403051060602N	606	46.5	3135	600	BB
EA2403051090902N	909	56.0	4600	400	B0
EA2403051121202N	1212	67.0	6100	300	BB
EA2403051151502N	1515	74.0	7540	300	BB
EA2403051181802N	1818	80.0	8950	220	BB

Diameter : 0.64 mm					
Code	# Pairs	cable (mm)	Approx Weight. (kg/km)	Length (m)	Drum
EA2403064000402N	4	10.0	90	2000	A0
EA2403064000602N	6	10.0	105	2000	A0
EA2403064000702N	7	10.5	115	2000	A0
EA2403064001102N	11	12.0	155	2000	A2
EA2403064001602N	16	13.0	200	2000	A2
EA2403064002102N	21	14.5	240	2000	A2
EA2403064002602N	26	15.5	285	2000	A2
EA2403064003102N	31	16.5	325	2000	A4
EA2403064005102N	51	19.5	490	2000	A6
EA2403064007602N	76	24.0	730	2000	A8
EA2403064010102N	101	27.5	940	2000	BB
EA2403064015202N	152	32.5	1345	1300	B0
EA2403064020202N	202	36.5	1745	1000	B0
EA2403064030302N	303	43.5	2530	700	B0
EA2403064040402N	404	49.5	3330	500	B0
EA2403064060602N	606	60.0	4900	400	BB
EA2403064090902N	909	72.0	7235	300	BB
EA2403064121202N	1212	82.0	9485	220	BB

Diameter : 0.91 mm					
Code	# Pairs	cable (mm)	Approx Weight. (kg/km)	Length (m)	Drum
EA2403091000202N	2	10.0	100	2000	A0
EA2403091000602N	6	12.0	160	2000	A2
EA2403091000702N	7	12.5	175	2000	A2
EA2403091001102N	11	14.5	245	2000	A2
EA2403091001602N	16	16.5	325	2000	A4
EA2403091002102N	21	18.0	405	2000	A4
EA2403091002602N	26	19.5	485	2000	A6
EA2403091003102N	31	21.0	565	2000	A6
EA2403091005102N	51	25.5	880	2000	B0
EA2403091007602N	76	31.0	1300	1300	B0
EA2403091010102N	101	36.0	1695	1000	B0
EA2403091015202N	152	42.5	2460	800	BB
EA2403091020202N	202	48.5	3230	600	BB
EA2403091030302N	303	59.5	4750	400	BB
EA2403091040402N	404	67.5	6265	300	BB
EA2403091060602N	606	81.5	9195	200	BB

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