ANSI P3 750 JCA

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75 Ohm Hardline Solid-Aluminum-Sheathed CATV Broadband

ANSI/SCTE 74 / Telcordia · 90 V AC Power-Passing · −40…+85 °C industrial P3 750 JCA



ANSI/SCTE 74 / Telcordia | **90 V AC Power-Passing** | **−40…+85 °C**

Application

P3 750 JCA 75 Ohm Hardline Solid-Aluminum-Sheathed CATV Broadband Trunk Coaxial Cable (P3 750 JCA) engineered to ANSI/SCTE 74 / Telcordia for 90 V AC Power-Passing service across −40…+85 °C, featuring stranded copper-clad aluminum (cca) conductor and

Typical uses: Commercial & Residential Building Distribution, Data Centers & Public Infrastructure, Fire-Safe Evacuation & Riser Shafts, Industrial Plant Balance-of-Plant Wiring, 25 kV AC & 1.5/3 kV DC Railway Overhead Catenary

Construction





Cross-section, not to scale

1	Stranded copper-clad aluminum (CCA) conductor	ANSI/SCTE 74 / Telcordia
2	Foam PE dielectric	ANSI/SCTE 74 / Telcordia
3	Aluminium outer conductor	ANSI/SCTE 74 / Telcordia
4	Black PE outer jacket	ANSI/SCTE 74 / Telcordia

Technical data

Typical values

Rated voltage / duty	90 V AC Power-Passing (ANSI/SCTE 74 / Telcordia)	**Conductor construction**	Stranded copper-clad aluminum (CCA) conductor — High-conductivity copper-clad aluminum (CCA) conductor per ANSI/SCTE 74 / Telcordia
Primary insulation / dielectric	Foam PE dielectric — Extruded Foam PE dielectric dielectric (continuous layer)	**Continuous operating temperature**	−40…+85 °C per ANSI/SCTE 74 / Telcordia
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s adiabatic limit depending on dielectric class)	**Minimum installation temperature**	−5 °C (thermoplastic) / −25 °C (cross-linked or elastomer) / −40 °C (metallic)
Outer protection / covering	Black PE outer jacket — Extruded Black PE outer jacket protective layer (continuous layer)	**Minimum bending radius**	10 × OD (installed / static routing)
Layer count & geometry	4 concentric/structural layers verified by cross-section inspection	**Environmental & chemical durability**	Engineered for industrial service in accordance with ANSI/SCTE 74 / Telcordia
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant	**Standards**	ANSI/SCTE 74 / Telcordia

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Outer Ø ≈ mm	Weight ≈ kg/km	Min. bend R fixed mm
P3 750 JCA Standard Construction Schedule (90 V AC Power-Passing · −40…+85 °C) 12 sizes				
☐ P3 750 JCA 1×2×0.5	1×2×0.5 mm²	6.4	58	52
☐ P3 750 JCA 2×2×0.5	2×2×0.5 mm²	9.2	112	74
☐ P3 750 JCA 4×2×0.5	4×2×0.5 mm²	11.4	176	92
☐ P3 750 JCA 8×2×0.5	8×2×0.5 mm²	14.8	295	118
☐ P3 750 JCA 12×2×0.5	12×2×0.5 mm²	17.6	420	141
☐ P3 750 JCA 1×2×1.0	1×2×1.0 mm²	7.6	86	61
☐ P3 750 JCA 2×2×1.0	2×2×1.0 mm²	11.0	168	88
☐ P3 750 JCA 4×2×1.0	4×2×1.0 mm²	13.5	264	108
☐ P3 750 JCA 8×2×1.0	8×2×1.0 mm²	17.9	465	143
☐ P3 750 JCA 1×2×1.5	1×2×1.5 mm²	8.5	114	68
☐ P3 750 JCA 4×2×1.5	4×2×1.5 mm²	15.2	348	122
☐ P3 750 JCA 12×2×1.5	12×2×1.5 mm²	23.4	860	187

– Additional pair/triad/quad counts (up to 48 pairs) and blue Ex-i intrinsically safe outer sheaths available per ANSI/SCTE 74 / Telcordia.

Electrical parameters by conductor cross-section

5 sizes

Conductor size	Max. DC R_{20} Ω/km	Mutual cap. ≈ nF/km	Inductance ≈ mH/km
0.50 mm² (7/0.30 mm · AWG 20)	39.00	115	0.65
0.75 mm² (7/0.37 mm · AWG 18)	26.00	120	0.62
1.00 mm² (7/0.43 mm · AWG 17)	19.50	125	0.60
1.50 mm² (7/0.53 mm · AWG 16)	13.30	135	0.58
2.50 mm² (7/0.67 mm · AWG 14)	7.98	145	0.55

– L/R ratio ≤ 25 µH/Ω (0.5–1.0 mm²) and ≤ 40 µH/Ω (1.5 mm²) for intrinsically safe Ex-i circuits.

Standards and approvals

- ANSI Compliant
- EN 10204 3.1 Routine Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/p3-750-jca-75-ohm-hardline-aluminum-sheathed-catv-trunk-coax

Typical values for this cable type, based on ANSI/SCTE 74 / Telcordia. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.