

CABLE

NO.of Pair	Type of Cable & Items Code		Standard Length
	Switchboard & Digital Telecommunication Cable		
	0.4 mm	0.5 mm	
10 Pair	CS-TPIF04-10	CS-TPIF05-10	1000M/500M/Reel
16 Pair	CS-TPIF04-16	CS-TPIF05-16	1000M/500M/Reel
20 Pair	CS-TPIF04-20	CS-TPIF05-20	1000M/500M/Reel
25 Pair	CS-TPIF04-25	CS-TPIF05-25	1000M/500M/Reel
32 Pair	CS-TPIF04-32	CS-TPIF05-32	1000M/500M/Reel
50 Pair	CS-TPIF04-50	CS-TPIF05-50	1000M/500M/Reel
100 Pair	CS-TPIF04-100	CS-TPIF05-100	1000M/500M/Reel
200 Pair	CS-TPIF04-200	CS-TPIF05-200	1000M/500M/Reel

APPLICATION

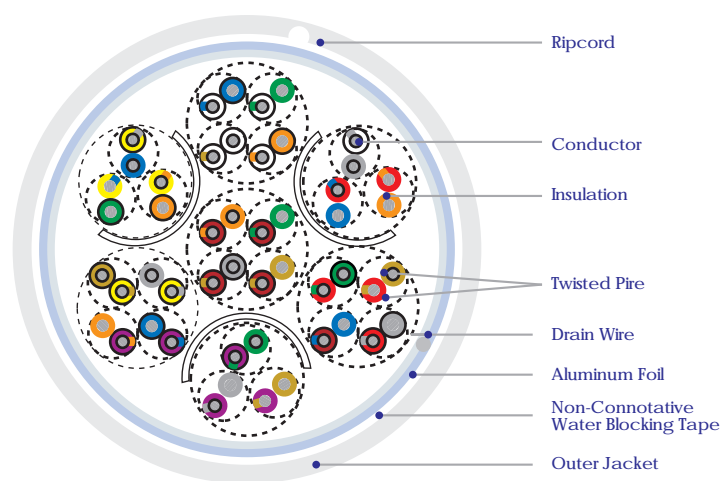
CONTECH switchboard cables are chosen time and again for their excellent quality, performance, size and flexibility in many applications, including digital voice, data and video. Today, carrier serving areas (CSAs) are subdivided into distribution areas (DAs) which are now being subdivided into even smaller video serving areas (VSAs) in order to reach customers with triple-play services. The VSAs typically service fewer subscribers and require limited design and capacity of broadband access equipment. Because of the rapid deployment of xDSL and IPTV in smaller configurations requiring even smaller cable assemblies, CONTECH developed 10-to-200 pair shielded high performance switchboard (HPS) cables.

PHYSICAL SPECIFICATIONS

Material Type & Conductor Size	Solid Bare Copper	0.4mm	0.51mm
Insulation Material Type & Thickness	HDPE	0.25mm	0.3mm
Insulated Conductor Diameter		0.9mm	1.1mm
Drain Wire Size & Material Type	24 AWG Solid Tinned Copper		
No. of Pair & Coverage Type	10 to 200 Pair - Polyester Rip Cored		
Protection & Shielding	Polyester Tape/ Aluminum Foil Tape & Non-Conductive Water Blocking Tape		
Outer Jacket Material & Cable Color	PVC/ LSZH - Gray/White		
Pair Color Code Standard	Standard telephony, bandmarked		



Indoor Switchboarded Telephone Pair Cable



Product Specifications

Indoor Switchbored Telephon Pair Cable

ELECTRICAL PERFORMANCE

Nominal Conductor diameter	mm	0.4	0.51
Conductor Gauge Size	AWG	26	24
Maximum Conductor Resistance @20°C	Ω/ km	153	91
Maximum Insulation Resistance @500V DC	MΩ/ km	10000	8000
Maximum Average Resistance Unbalance	%	2	2
Maximum Average Mutual Capacitance @1000Hz	nF/km	46	46
Maximum Capacitance Unbalance @1KHz Pair to Pair	nF/500m	45	45
Impedance @200KHz	Ω/km	120 +/-24	120 +/-24
Impedance @1000KHz	Ω/km	120 +/-12	120 +/-12
Attenuation @51KHz	dB/km	8.9	6.5
Attenuation @128KHz	dB/km	9.86	7.2
Attenuation @256KHz	dB/km	12.6	9.5
Attenuation @512KHz	dB/km	15.6	12.5
Attenuation @768KHz	dB/km	19.5	15.5
Attenuation @1024KHz	dB/km	24.6	19.0
Attenuation @1280KHz	dB/km	27	21
Attenuation @1536KHz	dB/km	27.8	22.2
Min NEXT Pair-to-Pair @1000KHz	dB	62	62
Dielectric Strength Conductor to Conductor (3 Secs)	V DC	500	500

Indoor Switchbored Telephon Pair Cable

TEMPERATURE RANGE

During Installation	-20°C up to +60°C
During Operating	-30°C up to +70°C