

# PAYTON TPU (Diesel Locomotive type)

Portable LV Power Cable



## GENERALITIES

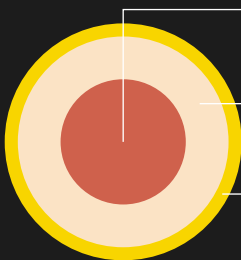
Mainly designed for applications in low voltage flexible power leads, specifically for wiring of diesel electric locomotive, rail car equipment, and earth moving equipment, battery leads, and oil & gas drilling rigs.

## NOTE

/ Optionally (on request), we can produce a version for torsional application for use in wind turbine, where high torsional resistance is required.

Torsion test  $\pm 150^\circ$  per meter (10,000 cycles)

## CABLE DESIGN



### / CONDUCTOR

Flexible type of plain annealed copper wires (class 5).

### / INSULATION

Extruded Ethylene Propylene Rubber (EPR).

### / OUTER SHEATH

Thermoplastic Polyurethane (TPU) - (flame retardant).

**APPROVALS**  
ICEA S-75-381

## KEY PERFORMANCE ATTRIBUTES

- / Extra flexible for easy handling
- / High mechanical resistance
- / Excellent dielectric properties
- / Wide temperature range of continuous operation (-40°C to +90°C)
- / Good chemical exposure resistance
- / Flame retardant

## ON-LINE CONTROL DEVICES

- / Spark tester
- / Diameter measurer

## TECHNICAL DATA - Voltage level (U) = 5kV /15 kV

Conductor Area (nominal) mm <sup>2</sup>	Conductor n. of strands (nominal) #	Conductor Diameter (approx) mm	Insulation Thickness (nominal) mm	Outer Sheath Thickness (nominal) mm	Cable Diameter (approx) mm	Nominal Weight (approx) kg/km	Electrical resistance		Ampacity (90°C conductor)
							DC (20°C) (maximum) Ω/km	AC (90°C) (maximum) Ω/km	in air (40°C) (maximum) A
25	168	6.1	1.52	2.03	13.5	325	0.780	0.995	161
35	238	7.3	2.03	2.41	16.4	470	0.554	0.706	204
50	350	9.9	2.03	2.79	19.8	672	0.386	0.492	243
70	490	10.9	2.03	2.79	20.8	855	0.272	0.347	311
95	665	12.4	2.03	3.18	23.1	1120	0.206	0.264	355
120	840	14.9	2.41	3.56	27.1	1447	0.161	0.206	424
150	1050	15.9	2.41	3.56	28.1	1717	0.129	0.165	493
185	1295	17.3	2.41	3.94	30.3	2081	0.106	0.136	550
240	1680	20.2	2.41	3.94	33.2	2602	0.0801	0.1035	659
300	2135	22.3	2.79	4.32	36.8	3287	0.0641	0.0834	770
400	2800	25.8	2.79	4.32	40.3	4165	0.0486	0.0642	913



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