

Activate™ PCS - Bandwidth/Power Product Optimization Chart

100 MBp/s Optimized	48VDC - Receiving End				Power Distance (ft)				Data Distance (ft)		
	Amps	Watts-PS	Watts-PD	mA	18AWG	16AWG	14AWG	12AWG	OM3 (MM)	OM4 (MM)	OS2 (SM)
	0.3125	15.4	12.95	350	1300	1730	2740	5200	6500	6500	32800
	0.625	30	25.5	600	800	900	1400	3200	6500	6500	32800
1.25	60	51	600x2	400	450	700	1600	6500	6500	32800	

1 Gbp/s Optimized	48VDC - Receiving End				Power Distance (ft)				Data Distance (ft)		
	Amps	Watts-PS	Watts-PD	mA	18AWG	16AWG	14AWG	12AWG	OM3 (MM)	OM4 (MM)	OS2 (SM)
	0.3125	15.4	12.95	350	1300	1730	2740	5200	2600	3281	32800
	0.625	30	25.5	600	800	900	1400	3200	2600	3281	32800
1.25	60	51	600x2	400	450	700	1600	2600	3281	32800	

10 GBp/s Optimized	48VDC - Receiving End				Power Distance (ft)				Data Distance (ft)		
	Amps	Watts-PS	Watts-PD	mA	18AWG	16AWG	14AWG	12AWG	OM3 (MM)	OM4 (MM)	OS2 (SM)
	0.3125	15.4	12.95	350	1300	1730	2740	5200	980	1640	32800
	0.625	30	25.5	600	800	900	1400	3200	980	1640	32800
1.25	60	51	600x2	400	450	700	1600	980	1640	32800	

UTP Optimized*	48VDC - Receiving End				Data Distance (ft)
	Amps	Watts-PS	Watts-PD	mA	
PoE (802.3af)	0.3125	15.4	12.95	350	328
PoE+ (802.3at)	0.625	30	25.5	600	
PoE++ (802.3bt Type 3)	1.25	60	51	600x2	
PoE++ (802.3bt Type 4)	2	100	95	960 x 2	

*supportive of 1000BASE-T, 2.5GBASE-T, 5GBASE-T, and 10GBASE-T Ethernet

** typically 22, 23 or 24AWG twisted pair cable, shielded or unshielded