

London Paddington <> Swindon <> Cardiff Central <> Swansea <> Carmarthen <> Pembroke Dock (Operated by IET)

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	125 mph	2 seconds	Immediately west of Ealing Broadway station	Fast Lines
Spring Bridge Road	Building Tunnel	125 mph	3 seconds	Between West Ealing and Ealing Broadway stations	Fast Lines
Alderton Tunnel	Train Tunnel	125 mph	8 seconds	Between Swindon and Bristol Parkway stations	
Chipping Sodbury Tunnel	Train Tunnel	120 mph	72 seconds	Between Swindon and Bristol Parkway stations	
Patchway New Tunnel	Train Tunnel	85 mph	44 seconds	Between Newport and Bristol Parkway stations	Eastbound and loud tunnel
Patchway Old Tunnel	Train Tunnel	90 mph	42 seconds	Between Bristol Parkway and Newport stations	Westbound and loud tunnel
Patchway Short Tunnel	Train Tunnel	90 mph	3 seconds	Between Bristol Parkway and Newport stations	Westbound and loud tunnel
Ableton Lane Tunnel	Train Tunnel	90 mph	3 seconds	Between Bristol Parkway and Newport stations	
Severn Tunnel	Train Tunnel	75 mph	215 seconds	Between Bristol Parkway and Newport stations	Long tunnel
Newport New / Old Tunnel	Train Tunnel	40-60 mph	54 seconds	1/4 mile south of Newport station	Low speed
Harbour Way Underpass	Road Tunnel	90 mph	4 seconds	Between Port Talbot Parkway and Pyle stations	
A48 – Port Talbot	Road Tunnel	50-70 mph	4 seconds	1/4 west of Port Talbot Parkway station	Loose tunnel
M4 – Port Talbot	Road Tunnel	50-70 mph	7 seconds	Between Baglan and Port Talbot Parkway stations	Loose tunnel
M4 – Skewen	Road Tunnel	70 mph	40 seconds	Between Llansamlet and Skewen stations	
Cockett Tunnel	Train Tunnel	60 mph	38 seconds	Between Gowerton and Swansea stations	
Millennium Coastal Park	Eco Tunnel	75 mph	4 seconds	Between Pembrey & Burry Port and Llanelli stations	
A40 – Sarnau Farm	Road Tunnel	75 mph	3 seconds	Between Whitland and Carmarthen stations	
A40 – St Clears	Road Tunnel	75 mph	2 seconds	Between Whitland and Carmarthen stations	
Whitland Tunnel	Train Tunnel	75 mph	5 seconds	Between Whitland and Carmarthen stations	
Narberth Tunnel	Train Tunnel	25 mph	28 seconds	Just south of Narberth station	
Pembroke Tunnel	Train Tunnel	20 mph	51 seconds	Between Pembroke Dock and Pembroke stations	

Diversionary tunnels (all routes)

Tunnel	Type	Max Speed	Time	Where	Notes
Mornington Street	Dive-Under	30 mph	6 seconds	Departing London Euston (Plat 1 – 9 Northbound only)	London Euston
Park Village Tunnel	Train Tunnel	40-50 mph	14 seconds	¾ mile north of London Euston station	London Euston
Primrose Hill Fast / Slow Tunnel	Train Tunnel	55 mph	50 seconds	Near South Hampstead station	London Euston
Kilburn High Road Station	Station Underpass	80 mph	2 seconds	Through Kilburn High Road station	London Euston
Kensal Green Fast Lines Tunnel	Train Tunnel	85 mph	9 seconds*	Next to Kensal Green station	London Euston
Acton Dive-Under	Dive-under	80 mph	3 seconds	Between Ealing Broadway and Acton Mainline stations	Slow Lines Eastbound only
Ealing Broadway Station	Building Tunnel	90mph	6 seconds	Immediately west of Ealing Broadway station	Slow Lines
Spring Bridge Road	Building Tunnel	90mph	8 seconds	Between West Ealing and Ealing Broadway stations	Slow Lines
Heathrow Junction	Over-Bridge	90mph	5 seconds	½ mile west of Hayes and Harlington station	Slow Lines
Cogan Tunnel	Train Tunnel	50 mph	16 seconds	Between Eastbrook and Corgan stations	Via Corgan
Porthkerry No.2 Tunnel	Train Tunnel	50 mph	35 seconds	Between Rhoose and Barry stations	Via Corgan
Porthkerry No.1 Tunnel	Train Tunnel	50 mph	4 seconds	Between Rhoose and Barry stations	Via Corgan

*May be slower if waiting to access the link line to the Great Western Mainline.

Diversionary tunnels (via Gloucester)

Tunnel	Type	Max Speed	Time	Where	Notes
Wickwar Tunnel	Train Tunnel	100 mph	33 seconds	Between Yate and Cam & Dursley stations	via Yate and Gloucester
Kemble Tunnel	Train Tunnel	90-100 mph	11 seconds	Just south of Kemble station	via Kemble and Gloucester
Sapperton Tunnel	Train Tunnel	90 mph	76 seconds	Between Kemble and Stroud stations	via Kemble and Gloucester
Newham Tunnel	Train Tunnel	70 mph	7 seconds	Between Lydney and Gloucester stations	via Gloucester
Tutshill Tunnel	Train Tunnel	80-90 mph	20 seconds	Between Chepstow and Lydney stations	via Gloucester

Diversionary tunnels (via Westbury / Bath Spa)

Tunnel	Type	Max Speed	Time	Where	Notes
Reading High Level Jnc	Dive-under	40 mph	5 seconds	On the approach to Reading station (Eastbound only)	via Westbury
Bradford Tunnel	Train Tunnel	70 mph	5 seconds	Just east of Bradford-on-Avon station	via Westbury
Box Tunnel	Train Tunnel	125 mph	66 seconds	Between Chippenham and Bath Spa stations	via Chippenham
Middle Hill Tunnel	Train Tunnel	100 mph	4 seconds	Between Chippenham and Bath Spa stations	via Chippenham
Sydney Gardens Tunnel	Train Tunnel	55-75 mph	11 seconds	Near Bath Spa station	Both routes via Bath
Twerton Short Tunnel	Train Tunnel	70-100 mph	2 seconds	Between Oldfield Park and Keynsham stations	Both routes via Bath
Twerton Long Tunnel	Train Tunnel	70-100 mph	9 seconds	Between Oldfield Park and Keynsham stations	Both routes via Bath
A36 underpass	Road Tunnel	100 mph	2 seconds	Between Oldfield Park and Keynsham stations	Both routes via Bath
Saltford Tunnel	Train Tunnel	100 mph	4 seconds	Between Oldfield Park and Keynsham stations	Both routes via Bath
St Annes No 3 Tunnel	Train Tunnel	70-90 mph	30 seconds	Between Keynsham and Lawrence Hill stations	Both routes via Bath
St Annes No 2 Tunnel	Train Tunnel	70-90 mph	5 seconds	Between Keynsham and Lawrence Hill stations	Both routes via Bath

London Paddington <> Swindon <> Cardiff Central (Operated by Class 387)

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	110 mph	2 seconds	Immediately west of Ealing Broadway station	Fast Lines
Spring Bridge Road	Building Tunnel	110 mph	3 seconds	Between West Ealing and Ealing Broadway stations	Fast Lines
Alderton Tunnel	Train Tunnel	110 mph	9 seconds	Between Swindon and Bristol Parkway stations	
Chipping Sodbury Tunnel	Train Tunnel	110 mph	82 seconds	Between Swindon and Bristol Parkway stations	
Patchway New Tunnel	Train Tunnel	85 mph	44 seconds	Between Newport and Bristol Parkway stations	Eastbound and loud tunnel
Patchway Old Tunnel	Train Tunnel	90 mph	42 seconds	Between Bristol Parkway and Newport stations	Westbound and loud tunnel
Patchway Short Tunnel	Train Tunnel	90 mph	3 seconds	Between Bristol Parkway and Newport stations	Westbound and loud tunnel
Ableton Lane Tunnel	Train Tunnel	90 mph	3 seconds	Between Bristol Parkway and Newport stations	
Severn Tunnel	Train Tunnel	75 mph	215 seconds	Between Bristol Parkway and Newport stations	Long tunnel
Newport New / Old Tunnel	Train Tunnel	40-60 mph	54 seconds	1/4 mile south of Newport station	Low speed

Diversionary tunnels (Class 387)

Tunnel	Type	Max Speed	Time	Where	Notes
Acton Dive-Under	Dive-under	80 mph	3 seconds	Between Ealing Broadway and Acton Mainline stations	Slow Lines Eastbound only
Ealing Broadway Station	Building Tunnel	90mph	6 seconds	Immediately west of Ealing Broadway station	Slow Lines
Spring Bridge Road	Building Tunnel	90mph	8 seconds	Between West Ealing and Ealing Broadway stations	Slow Lines
Heathrow Junction	Over-Bridge	90mph	5 seconds	1/2 mile west of Hayes and Harlington station	Slow Lines

London Paddington <> Chippenham <> Bath Spa <> Bristol Temple Meads <> Weston Super Mare

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	125 mph	2 seconds	Immediately west of Ealing Broadway station	Fast Lines
Spring Bridge Road	Building Tunnel	125 mph	3 seconds	Between West Ealing and Ealing Broadway stations	Fast Lines
Box Tunnel	Train Tunnel	125 mph	66 seconds	Between Chippenham and Bath Spa stations	
Middle Hill Tunnel	Train Tunnel	100 mph	4 seconds	Between Chippenham and Bath Spa stations	
Sydney Gardens Tunnel	Train Tunnel	55-75 mph	11 seconds	Near Bath Spa station	
Twerton Short Tunnel	Train Tunnel	70-100 mph	2 seconds	Between Oldfield Park and Keynsham stations	
Twerton Long Tunnel	Train Tunnel	70-100 mph	9 seconds	Between Oldfield Park and Keynsham stations	
A36 underpass	Road Tunnel	100 mph	2 seconds	Between Oldfield Park and Keynsham stations	
Salford Tunnel	Train Tunnel	100 mph	4 seconds	Between Oldfield Park and Keynsham stations	
St Annes No 3 Tunnel	Train Tunnel	70-90 mph	30 seconds	Between Keynsham and Lawrence Hill stations	
St Annes No 2 Tunnel	Train Tunnel	70-90 mph	5 seconds	Between Keynsham and Lawrence Hill stations	

Diversionary tunnels

Tunnel	Type	Max Speed	Time	Where	Notes
Reading High Level Jnc	Dive-under	40 mph	5 seconds	On the approach to Reading station (Eastbound only)	via Westbury
Bradford Tunnel	Train Tunnel	70 mph	5 seconds	Just east of Bradford-on-Avon station	via Westbury
Alderton Tunnel	Train Tunnel	125 mph	8 seconds	Between Swindon and Bristol Parkway stations	via Bristol Parkway
Chipping Sodbury Tunnel	Train Tunnel	120 mph	72 seconds	Between Swindon and Bristol Parkway stations	via Bristol Parkway

London Paddington <> Tiverton Parkway <> Plymouth / Paignton <> Penzance

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	125 mph	2 seconds	Immediately west of Ealing Broadway station	Fast Lines
Spring Bridge Road	Building Tunnel	125 mph	3 seconds	Between West Ealing and Ealing Broadway stations	Fast Lines
Reading High Level Jnc	Dive-under	40 mph	5 seconds	On the approach to Reading station (Eastbound only)	
Somerton Tunnel	Train Tunnel	100 mph	22 seconds	Between Castle Cary and Taunton stations	
Whiteball Tunnel	Train Tunnel	100 mph	30 seconds	Between Taunton and Tiverton Parkway stations	
Kennaway Tunnel	Train Tunnel	60 mph	7-9 seconds	Between Dawlish and Teignmouth stations	Longer if calling at Dawlish
Coryton Tunnel	Train Tunnel	60 mph	8 seconds	Between Dawlish and Teignmouth stations	
Phillot Tunnel	Train Tunnel	60 mph	2 seconds	Between Dawlish and Teignmouth stations	
Clerk Tunnel	Train Tunnel	60 mph	2 seconds	Between Dawlish and Teignmouth stations	
Parsons Tunnel	Train Tunnel	60 mph	22 seconds	Between Dawlish and Teignmouth stations	
A380 – Aller Tunnel	Road Tunnel	60 mph	13 seconds	Between Newton Abbot and Torre stations	Paignton services
Dainton Tunnel	Train Tunnel	55 mph	10 seconds	Between Newton Abbot and Totness stations	Playmouth / Penzance services
Marley Tunnel	Train Tunnel	60 mph	31 seconds	Between Totness and Ivybridge stations	Playmouth / Penzance services
Mutley Tunnel	Train Tunnel	55 mph	25 seconds	Between Ivybridge and Plymouth stations	Playmouth / Penzance services
Devonport Tunnel	Train Tunnel	40 mph	6 seconds	Between Devonport and Keyham stations	Penzance services
Wivelscombe Tunnel	Train Tunnel	70 mph	13 seconds	Between Saltash and St Germans stations	Penzance services
A390 – Sperritt Tunnel	Road Tunnel	60 mph	3 seconds	Between Liskeard and Bodmin Parkway stations	Penzance services
Brown Queen Tunnel	Train Tunnel	65 mph	3 seconds	Between Bodmin Parkway and Lostwithiel stations	Penzance services
Treverrin Tunnel	Train Tunnel	65 mph	21 seconds	Between Lostwithiel and Par stations	Penzance services
Polperro Tunnel	Train Tunnel	70 mph	18 seconds	Between St Austell and Truro stations	Penzance services
Buckshead Tunnel	Train Tunnel	70 mph	10 seconds	Between St Austell and Truro stations	Penzance services
Higher Town Tunnel	Train Tunnel	50-60 mph	4 seconds	Between Truro and Redruth stations	Penzance services
Redruth Tunnel	Train Tunnel	40 mph	3 seconds	Just north of Redruth station	Penzance services

Diversionary tunnels

Tunnel	Type	Max Speed	Time	Where	Notes
Mornington Street	Dive-Under	30 mph	6 seconds	Departing London Euston (Plat 1 – 9 Northbound only)	London Euston
Park Village Tunnel	Train Tunnel	40-50 mph	14 seconds	¾ mile north of London Euston station	London Euston
Primrose Hill Fast / Slow Tunnel	Train Tunnel	55 mph	50 seconds	Near South Hampstead station	London Euston
Kilburn High Road Station	Station Underpass	80 mph	2 seconds	Through Kilburn High Road station	London Euston
Kensal Green Fast Lines Tunnel	Train Tunnel	85 mph	9 seconds*	Next to Kensal Green station	London Euston
Acton Dive-Under	Dive-under	80 mph	3 seconds	Between Ealing Broadway and Acton Mainline stations	Slow Lines Eastbound only
Ealing Broadway Station	Building Tunnel	90mph	6 seconds	Immediately west of Ealing Broadway station	Slow Lines
Spring Bridge Road	Building Tunnel	90mph	8 seconds	Between West Ealing and Ealing Broadway stations	Slow Lines
Heathrow Junction	Over-Bridge	90mph	5 seconds	½ mile west of Hayes and Harlington station	Slow Lines
Crewkerne Tunnel	Train Tunnel	75 mph	9 seconds	1 mile west of Crewkerne station	via Axminster
Honiton Tunnel	Train Tunnel	85 mph	42 seconds	2 miles east of Honiton station	via Axminster
A30 underpass	Train Tunnel	85 mph	3 seconds	Between Honiton and Feniton stations	via Axminster
Blackboy Tunnel	Train Tunnel	70 mph	13 seconds	½ mile east of Exeter Central station	via Axminster
St Davids Tunnel	Train Tunnel	30 mph	17 seconds	Just west of Exeter Central station	via Axminster

London Paddington <> Oxford <> Moreton in Marsh <> Worcester <> Hereford (North Cotswold Line)

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	125 mph	2 seconds	Immediately west of Ealing Broadway station	Fast Lines
Spring Bridge Road	Building Tunnel	125 mph	3 seconds	Between West Ealing and Ealing Broadway stations	Fast Lines
Campden Tunnel	Train Tunnel	75 mph	25 seconds	Between Moreton in Marsh and Honeybourne stations	
Colwall New Tunnel	Train Tunnel	70 mph	65 seconds	Between Great Malvern and Colwall stations	
Ledbury Tunnel	Train Tunnel	40 mph	93 seconds	Just east of Ledbury station	

Diversionary tunnels

Tunnel	Type	Max Speed	Time	Where	Notes
Acton Dive-Under	Dive-under	80 mph	3 seconds	Between Ealing Broadway and Acton Mainline stations	Slow Lines Eastbound only
Ealing Broadway Station	Building Tunnel	90mph	6 seconds	Immediately west of Ealing Broadway station	Slow Lines
Spring Bridge Road	Building Tunnel	90mph	8 seconds	Between West Ealing and Ealing Broadway stations	Slow Lines
Heathrow Junction	Over-Bridge	90mph	5 seconds	½ mile west of Hayes and Harlington station	Slow Lines

London Paddington <> Swindon <> Kemble <> Cheltenham Spa

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	125 mph	2 seconds	Immediately west of Ealing Broadway station	Fast Lines
Spring Bridge Road	Building Tunnel	125 mph	3 seconds	Between West Ealing and Ealing Broadway stations	Fast Lines
Kemble Tunnel	Train Tunnel	90-100 mph	11 seconds	Just south of Kemble station	via Kemble and Gloucester
Sapperton Tunnel	Train Tunnel	90 mph	76 seconds	Between Kemble and Stroud stations	via Kemble and Gloucester

Diversionary tunnels

Tunnel	Type	Max Speed	Time	Where	Notes
Acton Dive-Under	Dive-under	80 mph	3 seconds	Between Ealing Broadway and Acton Mainline stations	Slow Lines Eastbound only
Ealing Broadway Station	Building Tunnel	90mph	6 seconds	Immediately west of Ealing Broadway station	Slow Lines
Spring Bridge Road	Building Tunnel	90mph	8 seconds	Between West Ealing and Ealing Broadway stations	Slow Lines
Heathrow Junction	Over-Bridge	90mph	5 seconds	½ mile west of Hayes and Harlington station	Slow Lines
Alderton Tunnel	Train Tunnel	125 mph	8 seconds	Between Swindon and Bristol Parkway stations	Via Bristol Parkway
Chipping Sodbury Tunnel	Train Tunnel	120 mph	72 seconds	Between Swindon and Bristol Parkway stations	Via Bristol Parkway
Wickwar Tunnel	Train Tunnel	100 mph	33 seconds	Between Yate and Cam & Dursley stations	Via Bristol Parkway

London Paddington <> Tiverton Parkway <> Plymouth <> Penzance (Normal route)

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	75 mph	3 seconds	Immediately west of Ealing Broadway station	Fast Lines
Spring Bridge Road	Building Tunnel	75 mph	3 seconds	Between West Ealing and Ealing Broadway stations	Fast Lines
Reading High Level Jnc	Dive-under	40 mph	5 seconds	On the approach to Reading station (Eastbound only)	
Somerton Tunnel	Train Tunnel	75 mph	27 seconds	Between Castle Cary and Taunton stations	
Whiteball Tunnel	Train Tunnel	75 mph	30 seconds	Between Taunton and Tiverton Parkway stations	
Kennaway Tunnel	Train Tunnel	60 mph	7 seconds	Between Dawlish and Teignmouth stations	
Coryton Tunnel	Train Tunnel	60 mph	8 seconds	Between Dawlish and Teignmouth stations	
Phillot Tunnel	Train Tunnel	60 mph	2 seconds	Between Dawlish and Teignmouth stations	
Clerk Tunnel	Train Tunnel	60 mph	2 seconds	Between Dawlish and Teignmouth stations	
Parsons Tunnel	Train Tunnel	60 mph	22 seconds	Between Dawlish and Teignmouth stations	
Dainton Tunnel	Train Tunnel	55 mph	10 seconds	Between Newton Abbot and Totness stations	Plymouth / Penzance services
Marley Tunnel	Train Tunnel	60 mph	31 seconds	Between Totness and Ivybridge stations	Plymouth / Penzance services
Mutley Tunnel	Train Tunnel	55 mph	25 seconds	Between Ivybridge and Plymouth stations	Plymouth / Penzance services
Devonport Tunnel	Train Tunnel	40 mph	6 seconds	Between Devonport and Keyham stations	Penzance services
Wivelscombe Tunnel	Train Tunnel	70 mph	13 seconds	Between Saltash and St Germans stations	Penzance services
A390 – Sperritt Tunnel	Road Tunnel	60 mph	3 seconds	Between Liskeard and Bodmin Parkway stations	Penzance services
Brown Queen Tunnel	Train Tunnel	65 mph	3 seconds	Between Bodmin Parkway and Lostwithiel stations	Penzance services
Treverrin Tunnel	Train Tunnel	65 mph	21 seconds	Between Lostwithiel and Par stations	Penzance services
Polperro Tunnel	Train Tunnel	70 mph	18 seconds	Between St Austell and Truro stations	Penzance services
Buckshead Tunnel	Train Tunnel	70 mph	10 seconds	Between St Austell and Truro stations	Penzance services
Higher Town Tunnel	Train Tunnel	50-60 mph	4 seconds	Between Truro and Redruth stations	Penzance services
Redruth Tunnel	Train Tunnel	40 mph	3 seconds	Just north of Redruth station	Penzance services

Diversionary tunnels

Tunnel	Type	Max Speed	Time	Where	Notes
Mornington Street	Dive-Under	30 mph	6 seconds	Departing London Euston (Plat 1 – 9 Northbound only)	London Euston
Park Village Tunnel	Train Tunnel	40-50 mph	14 seconds	¾ mile north of London Euston station	London Euston
Primrose Hill Fast / Slow Tunnel	Train Tunnel	55 mph	50 seconds	Near South Hampstead station	London Euston
Kilburn High Road Station	Station Underpass	75 mph	2 seconds	Through Kilburn High Road station	London Euston
Kensal Green Fast Lines Tunnel	Train Tunnel	75 mph	9 seconds*	Next to Kensal Green station	London Euston
Acton Dive-Under	Dive-under	75 mph	3 seconds	Between Ealing Broadway and Acton Mainline stations	Slow Lines Eastbound only
Ealing Broadway Station	Building Tunnel	75mph	3 seconds	Immediately west of Ealing Broadway station	Slow Lines
Spring Bridge Road	Building Tunnel	75mph	3 seconds	Between West Ealing and Ealing Broadway stations	Slow Lines
Heathrow Junction	Over-Bridge	75mph	5 seconds	½ mile west of Hayes and Harlington station	Slow Lines
Alderton Tunnel	Train Tunnel	75mph	13 seconds	Between Swindon and Bristol Parkway stations	Via Bristol Parkway
Chipping Sodbury Tunnel	Train Tunnel	75 mph	121 seconds	Between Swindon and Bristol Parkway stations	Via Bristol Parkway
Bradford Tunnel	Train Tunnel	70 mph	5 seconds	Just east of Bradford-on-Avon station	via Bradford on Avon
Box Tunnel	Train Tunnel	75 mph	81 seconds	Between Chippenham and Bath Spa stations	via Bath and Bristol
Middle Hill Tunnel	Train Tunnel	75 mph	5 seconds	Between Chippenham and Bath Spa stations	via Bath and Bristol
Sydney Gardens Tunnel	Train Tunnel	55-75 mph	11 seconds	Near Bath Spa station	via Bath and Bristol
Twerton Short Tunnel	Train Tunnel	70-75 mph	3 seconds	Between Oldfield Park and Keynsham stations	via Bath and Bristol
Twerton Long Tunnel	Train Tunnel	70-75 mph	10 seconds	Between Oldfield Park and Keynsham stations	via Bath and Bristol
A36 underpass	Road Tunnel	75 mph	2 seconds	Between Oldfield Park and Keynsham stations	via Bath and Bristol
Saltford Tunnel	Train Tunnel	75 mph	4 seconds	Between Oldfield Park and Keynsham stations	via Bath and Bristol
St Annes No 3 Tunnel	Train Tunnel	75mph	30 seconds	Between Keynsham and Lawrence Hill stations	via Bath and Bristol
St Annes No 2 Tunnel	Train Tunnel	75mph	5 seconds	Between Keynsham and Lawrence Hill stations	via Bath and Bristol
Crewkerne Tunnel	Train Tunnel	75 mph	9 seconds	1 mile west of Crewkerne station	via Axminster
Honiton Tunnel	Train Tunnel	75 mph	46 seconds	2 miles east of Honiton station	via Axminster
A30 underpass	Train Tunnel	75 mph	4 seconds	Between Honiton and Feniton stations	via Axminster
Blackboy Tunnel	Train Tunnel	70 mph	13 seconds	½ mile east of Exeter Central station	via Axminster
St Davids Tunnel	Train Tunnel	30 mph	17 seconds	Just west of Exeter Central station	via Axminster

London Paddington <> Reading <> Didcot Parkway (GWML Local)

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	125 mph	2 seconds	Immediately west of Ealing Broadway station	Fast Lines
Spring Bridge Road	Building Tunnel	125 mph	3 seconds	Between West Ealing and Ealing Broadway stations	Fast Lines

Diversionary tunnels

Tunnel	Type	Max Speed	Time	Where	Notes
Acton Dive-Under	Dive-under	80 mph	3 seconds	Between Ealing Broadway and Acton Mainline stations	Slow Lines Eastbound only
Ealing Broadway Station	Building Tunnel	90mph	6 seconds	Immediately west of Ealing Broadway station	Slow Lines
Spring Bridge Road	Building Tunnel	90mph	8 seconds	Between West Ealing and Ealing Broadway stations	Slow Lines
Heathrow Junction	Over-Bridge	90mph	5 seconds	½ mile west of Hayes and Harlington station	Slow Lines

Reading <> Redhill <> Gatwick Airport (North Downs Line)

Tunnel	Type	Max Speed	Time	Where	Notes
A331 – North Camp	Building Tunnel	70 mph	2 seconds	Between Farnborough North and North Camp stations	Louder if windows open
Guildford Chalk Tunnel	Tunnel	75 mph	7 seconds	Just south of Guildford station	Louder if windows open
St Catherine's Tunnel	Tunnel	75 mph	27 seconds	Just south of Guildford station	Louder if windows open

West Ealing <> Greenford (Greenford Branch)

Tunnel	Type	Max Speed	Time	Where	Notes
Ealing Broadway Station	Building Tunnel	90mph	6 seconds	Immediately west of Ealing Broadway station	Slow Lines
Spring Bridge Road	Building Tunnel	90mph	8 seconds	Between West Ealing and Ealing Broadway stations	Slow Lines
Copley Close	Building Tunnel	20-40 mph	50 seconds	Between Drayton Green and Castle Bar Park stations	

Oxford <> Bath <> Bristol

Tunnel	Type	Max Speed	Time	Where	Notes
Box Tunnel	Train Tunnel	125 mph	66 seconds	Between Chippenham and Bath Spa stations	
Middle Hill Tunnel	Train Tunnel	100 mph	5 seconds	Between Chippenham and Bath Spa stations	
Sydney Gardens Tunnel	Train Tunnel	55-75 mph	11 seconds	Near Bath Spa station	
Twerton Short Tunnel	Train Tunnel	70-100 mph	2 seconds	Between Oldfield Park and Keynsham stations	
Twerton Long Tunnel	Train Tunnel	70-100 mph	9 seconds	Between Oldfield Park and Keynsham stations	
A36 underpass	Road Tunnel	100 mph	2 seconds	Between Oldfield Park and Keynsham stations	
Saltford Tunnel	Train Tunnel	100 mph	4 seconds	Between Oldfield Park and Keynsham stations	
St Annes No 3 Tunnel	Train Tunnel	70-90 mph	30 seconds	Between Keynsham and Lawrence Hill stations	
St Annes No 2 Tunnel	Train Tunnel	70-90 mph	5 seconds	Between Keynsham and Lawrence Hill stations	

Diversionary tunnels

Tunnel	Type	Max Speed	Time	Where	Notes
Alderton Tunnel	Train Tunnel	125 mph	8 seconds	Between Swindon and Bristol Parkway stations	Via Bristol Parkway
Chipping Sodbury Tunnel	Train Tunnel	120 mph	72 seconds	Between Swindon and Bristol Parkway stations	Via Bristol Parkway

No Tunnels

- Didcot Parkway <> Oxford <> Banbury / Moreton-in-Marsh (Oxford Canal Line)
- Slough <> Windsor & Eton Central (Windsor Branch)
- Newbury <> Bedwyn (Reading to Taunton Line)
- Reading <> Basingstoke (Reading–Basingstoke Line)

Bristol Temple Meads <> Gloucester <> Worcester Foregate Street

Tunnel	Type	Max Speed	Time	Where	Notes
Wickwar Tunnel	Train Tunnel	100 mph	32 seconds	Between Yate and Cam & Dursley stations	

Portsmouth Harbour <> Sainsbury <> Bristol Temple Meads <> Cardiff Central (Heart of Wessex Line)

Tunnel	Type	Max Speed	Time	Where	Notes
Southampton Tunnel	Train Tunnel	40 mph	29 seconds	On the eastern approach to Southampton station	
Fisherton Tunnel	Train Tunnel	50 mph	22 seconds	On the eastern approach to Sainsbury station	
Bradford Tunnel	Train Tunnel	70 mph	5 seconds	Just east of Bradford-on-Avon station	
Sydney Gardens Tunnel	Train Tunnel	55-75 mph	11 seconds	Near Bath Spa station	
Twerton Short Tunnel	Train Tunnel	70-100 mph	2 seconds	Between Oldfield Park and Keynsham stations	
Twerton Long Tunnel	Train Tunnel	70-100 mph	9 seconds	Between Oldfield Park and Keynsham stations	
A36 underpass	Road Tunnel	100 mph	2 seconds	Between Oldfield Park and Keynsham stations	
Saltford Tunnel	Train Tunnel	100 mph	4 seconds	Between Oldfield Park and Keynsham stations	
St Annes No 3 Tunnel	Train Tunnel	70-90 mph	30 seconds	Between Keynsham and Lawrence Hill stations	
St Annes No 2 Tunnel	Train Tunnel	70-90 mph	5 seconds	Between Keynsham and Lawrence Hill stations	
Patchway New Tunnel	Train Tunnel	85 mph	44 seconds	Between Newport and Bristol Parkway stations	Eastbound and loud tunnel
Patchway Old Tunnel	Train Tunnel	90 mph	42 seconds	Between Bristol Parkway and Newport stations	Westbound and loud tunnel
Patchway Short Tunnel	Train Tunnel	90 mph	3 seconds	Between Bristol Parkway and Newport stations	Westbound and loud tunnel
Ableton Lane Tunnel	Train Tunnel	90 mph	3 seconds	Between Bristol Parkway and Newport stations	
Severn Tunnel	Train Tunnel	75 mph	224 seconds	Between Bristol Parkway and Newport stations	Long tunnel
Newport New / Old Tunnel	Train Tunnel	40-60 mph	54 seconds	1/4 mile south of Newport station	Low speed

Diversionary tunnels (Omitting Southampton Central)

Tunnel	Type	Max Speed	Time	Where	Notes
Fareham Tunnel	Train Tunnel	70 mph	43 seconds	Between Botley and Fareham	via Eastleigh
Tapnage Tunnel	Train Tunnel	70 mph	4 seconds	Between Botley and Fareham	via Eastleigh

Diversionary tunnels (West of Southampton Central)

Tunnel	Type	Max Speed	Time	Where	Notes
Southampton Tunnel	Train Tunnel	40 mph	29 seconds	On the eastern approach to Southampton station	Used for a second time
M27 Underpass	Long overbridge	100 mph	3 seconds	Just south of Southampton Airport Parkway station	Used for a second time

Penzance <> Taunton <> Bristol Temple Meads <> Cardiff Central

Tunnel	Type	Max Speed	Time	Where	Notes
Redruth Tunnel	Train Tunnel	40 mph	3 seconds	Just north of Redruth station	Penzance services
Higher Town Tunnel	Train Tunnel	50-60 mph	4 seconds	Between Redruth and Truro stations	Penzance services
Buckshead Tunnel	Train Tunnel	70 mph	10 seconds	Between Truro and St Austell stations	Penzance services
Polperro Tunnel	Train Tunnel	70 mph	18 seconds	Between Truro and St Austell stations	Penzance services
Treverrin Tunnel	Train Tunnel	65 mph	21 seconds	Between Par and Lostwithiel stations	Penzance services
Brown Queen Tunnel	Train Tunnel	65 mph	3 seconds	Between Lostwithiel and Bodmin Parkway stations	Penzance services
A390 – Sperritt Tunnel	Road Tunnel	60 mph	3 seconds	Between Bodmin Parkway and Liskeard stations	Penzance services
Wivelscombe Tunnel	Train Tunnel	70 mph	13 seconds	Between St Germans and Saltash stations	Penzance services
Devonport Tunnel	Train Tunnel	40 mph	6 seconds	Between Keyham and Devonport stations	Penzance services
Mutley Tunnel	Train Tunnel	55 mph	25 seconds	Between Plymouth and Ivybridge stations	Playmouth / Penzance services
Marley Tunnel	Train Tunnel	60 mph	31 seconds	Between Ivybridge and Totness stations	Playmouth / Penzance services
Dainton Tunnel	Train Tunnel	55 mph	10 seconds	Between Totness and Newton Abbot stations	Playmouth / Penzance services
Parsons Tunnel	Train Tunnel	60 mph	22 seconds	Between Teignmouth and Dawlish stations	
Clerk Tunnel	Train Tunnel	60 mph	2 seconds	Between Teignmouth and Dawlish stations	
Phillot Tunnel	Train Tunnel	60 mph	2 seconds	Between Teignmouth and Dawlish stations	
Coryton Tunnel	Train Tunnel	60 mph	8 seconds	Between Teignmouth and Dawlish stations	
Kennaway Tunnel	Train Tunnel	60 mph	7-9 seconds	Between Teignmouth and Dawlish stations	
Whiteball Tunnel	Train Tunnel	100 mph	30 seconds	Between Tiverton Parkway and Taunton stations	
Patchway New Tunnel	Train Tunnel	85 mph	44 seconds	Between Filton Abbey Wood and Severn Tunnel	Eastbound and loud tunnel
Patchway Old Tunnel	Train Tunnel	90 mph	42 seconds	Between Filton Abbey Wood and Severn Tunnel	Westbound and loud tunnel
Patchway Short Tunnel	Train Tunnel	90 mph	3 seconds	Between Filton Abbey Wood and Severn Tunnel	Westbound and loud tunnel
Ableton Lane Tunnel	Train Tunnel	90 mph	3 seconds	Between Filton Abbey Wood and Severn Tunnel	
Severn Tunnel	Train Tunnel	75 mph	224 seconds	Between Ableton Lane Tunnel and Severn Tunnel Junction stations	Long tunnel
Newport New / Old Tunnel	Train Tunnel	40-60 mph	54 seconds	1/4 mile south of Newport station	Low speed

Diversionary tunnels

Tunnel	Type	Max Speed	Time	Where	Notes
Somerton Tunnel	Train Tunnel	100 mph	22 seconds	Between Castle Cary and Taunton stations	via Westbury and Bath Spa
Bradford Tunnel	Train Tunnel	70 mph	5 seconds	Just east of Bradford-on-Avon station	via Westbury and Bath Spa
Sydney Gardens Tunnel	Train Tunnel	55-75 mph	11 seconds	Near Bath Spa station	via Westbury and Bath Spa
Twerton Short Tunnel	Train Tunnel	70-100 mph	2 seconds	Between Oldfield Park and Keynsham stations	via Westbury and Bath Spa
Twerton Long Tunnel	Train Tunnel	70-100 mph	9 seconds	Between Oldfield Park and Keynsham stations	via Westbury and Bath Spa
A36 underpass	Road Tunnel	100 mph	2 seconds	Between Oldfield Park and Keynsham stations	via Westbury and Bath Spa
Saltford Tunnel	Train Tunnel	100 mph	4 seconds	Between Oldfield Park and Keynsham stations	via Westbury and Bath Spa
St Annes No 3 Tunnel	Train Tunnel	70-90 mph	30 seconds	Between Keynsham and Lawrence Hill stations	via Westbury and Bath Spa
St Annes No 2 Tunnel	Train Tunnel	70-90 mph	5 seconds	Between Keynsham and Lawrence Hill stations	via Westbury and Bath Spa

Weymouth <> Bristol Temple Meads <> Great Malvern (Heart of Wessex Line)

Tunnel	Type	Max Speed	Time	Where	Notes
Bincombe No. 2 Tunnel	Train Tunnel	85 mph	2 seconds	Between Upwey and Dorchester West stations	
Bincombe No. 1 Tunnel	Train Tunnel	85 mph	30 seconds	Between Upwey and Dorchester West stations	
Poundbury Tunnel	Train Tunnel	75 mph	11 seconds	Between Dorchester West and Maiden Newton stations	
Grimstone Tunnel	Train Tunnel	75 mph	22 seconds	Between Dorchester West and Maiden Newton stations	
Evershot Tunnel	Train Tunnel	55 mph	12 seconds	Between Maiden Newton and Chetnole stations	
Bradford Tunnel	Train Tunnel	70 mph	5 seconds	Just east of Bradford-on-Avon station	
Sydney Gardens Tunnel	Train Tunnel	55-75 mph	11 seconds	Near Bath Spa station	
Twerton Short Tunnel	Train Tunnel	70-100 mph	2 seconds	Between Oldfield Park and Keynsham stations	
Twerton Long Tunnel	Train Tunnel	70-100 mph	9 seconds	Between Oldfield Park and Keynsham stations	
A36 underpass	Road Tunnel	100 mph	2 seconds	Between Oldfield Park and Keynsham stations	
Saltford Tunnel	Train Tunnel	100 mph	4 seconds	Between Oldfield Park and Keynsham stations	
St Annes No 3 Tunnel	Train Tunnel	70-90 mph	30 seconds	Between Keynsham and Lawrence Hill stations	
St Annes No 2 Tunnel	Train Tunnel	70-90 mph	5 seconds	Between Keynsham and Lawrence Hill stations	
Wickwar Tunnel	Train Tunnel	100 mph	32 seconds	Between Yate and Cam & Dursley stations	

Sailsbury / Weston Super Mare <> Bristol Temple Meads <> Severn Beach

Tunnel	Type	Max Speed	Time	Where	Notes
Bradford Tunnel	Train Tunnel	70 mph	5 seconds	Just east of Bradford-on-Avon station	Sailsbury trains only
Sydney Gardens Tunnel	Train Tunnel	55-75 mph	11 seconds	Near Bath Spa station	Sailsbury trains only
Twerton Short Tunnel	Train Tunnel	70-100 mph	2 seconds	Between Oldfield Park and Keynsham stations	Sailsbury trains only
Twerton Long Tunnel	Train Tunnel	70-100 mph	9 seconds	Between Oldfield Park and Keynsham stations	Sailsbury trains only
A36 underpass	Road Tunnel	100 mph	2 seconds	Between Oldfield Park and Keynsham stations	Sailsbury trains only
Saltford Tunnel	Train Tunnel	100 mph	4 seconds	Between Oldfield Park and Keynsham stations	Sailsbury trains only
St Annes No 3 Tunnel	Train Tunnel	70-90 mph	30 seconds	Between Keynsham and Lawrence Hill stations	Sailsbury trains only
St Annes No 2 Tunnel	Train Tunnel	70-90 mph	5 seconds	Between Keynsham and Lawrence Hill stations	Sailsbury trains only
Montpelier Tunnel	Train Tunnel	30 mph	22 seconds	Between Stapleton Road and Montpelier stations	All services
Clifton Downs Station	Building Underpass	25 mph	6 seconds	Immediately east of Clifton Downs station	All services
Clifton Downs Tunnel	Train Tunnel	50 mph	75 seconds	Between Clifton Downs and Sea Mills stations	All services

No Tunnels on these routes:

- Westbury <> Chippenham <> Swindon (Trans-Wilts Line)

Plymouth > Penzance (Cornish Mainline)

Tunnel	Type	Max Speed	Time	Where	Notes
Devonport Tunnel	Train Tunnel	40 mph	6 seconds	Between Devonport and Keyham stations	
Wivelscombe Tunnel	Train Tunnel	70 mph	13 seconds	Between Saltash and St Germans stations	
A390 – Sperritt Tunnel	Road Tunnel	60 mph	3 seconds	Between Liskeard and Bodmin Parkway stations	
Brown Queen Tunnel	Train Tunnel	65 mph	3 seconds	Between Bodmin Parkway and Lostwithiel stations	
Treverrin Tunnel	Train Tunnel	65 mph	21 seconds	Between Lostwithiel and Par stations	
Polperro Tunnel	Train Tunnel	70 mph	18 seconds	Between St Austell and Truro stations	
Buckshead Tunnel	Train Tunnel	70 mph	10 seconds	Between St Austell and Truro stations	
Higher Town Tunnel	Train Tunnel	50-60 mph	4 seconds	Between Truro and Redruth stations	
Redruth Tunnel	Train Tunnel	40 mph	3 seconds	Just north of Redruth station	

Paignton > Exeter St Davids > Exmouth (Avocet and Riviera Lines)

Tunnel	Type	Max Speed	Time	Where	Notes
A380 – Aller Tunnel	Road Tunnel	60 mph	13 seconds	Between Torre and Newton Abbot stations	
Parsons Tunnel	Train Tunnel	60 mph	22 seconds	Between Teignmouth and Dawlish stations	
Clerk Tunnel	Train Tunnel	60 mph	2 seconds	Between Teignmouth and Dawlish stations	
Phillot Tunnel	Train Tunnel	60 mph	2 seconds	Between Teignmouth and Dawlish stations	
Coryton Tunnel	Train Tunnel	60 mph	8 seconds	Between Teignmouth and Dawlish stations	
Kennaway Tunnel	Train Tunnel	60 mph	7-9 seconds	Between Teignmouth and Dawlish stations	
Blackboy Tunnel	Train Tunnel	70 mph	13 seconds	½ mile east of Exeter Central station	
St Davids Tunnel	Train Tunnel	30 mph	17 seconds	Just west of Exeter Central station	
Blackboy Tunnel	Train Tunnel	70 mph	13 seconds	½ mile east of Exeter Central station	

Plymouth <> Gunnislake (Tamar Valley Line)

Tunnel	Type	Max Speed	Time	Where	Notes
Devonport Tunnel	Train Tunnel	40 mph	6 seconds	Between Devonport and Keyham stations	

Axminster / Paignton <> Exeter Central <> Okehampton / Banstaple (Dartmoor and Tarka Lines)

Tunnel	Type	Max Speed	Time	Where	Notes
Honiton Tunnel	Train Tunnel	85 mph	42 seconds	2 miles east of Honiton station	Axminster
A30 underpass	Train Tunnel	85 mph	3 seconds	Between Honiton and Feniton stations	Axminster
Blackboy Tunnel	Train Tunnel	70 mph	13 seconds	½ mile east of Exeter Central station	Axminster
St Davids Tunnel	Train Tunnel	30 mph	17 seconds	Just west of Exeter Central station	Axminster
A380 – Aller Tunnel	Road Tunnel	60 mph	13 seconds	Between Torre and Newton Abbot stations	Paignton
Parsons Tunnel	Train Tunnel	60 mph	22 seconds	Between Teignmouth and Dawlish stations	Paignton
Clerk Tunnel	Train Tunnel	60 mph	2 seconds	Between Teignmouth and Dawlish stations	Paignton
Phillot Tunnel	Train Tunnel	60 mph	2 seconds	Between Teignmouth and Dawlish stations	Paignton
Coryton Tunnel	Train Tunnel	60 mph	8 seconds	Between Teignmouth and Dawlish stations	Paignton
Kennaway Tunnel	Train Tunnel	60 mph	7-9 seconds	Between Teignmouth and Dawlish stations	Paignton

Par <> Newquay (Atlantic Coast Line)

Tunnel	Type	Max Speed	Time	Where	Notes
Luxulyan Tunnel	Train Tunnel	35 mph	4 seconds	1/3 mile east of Luxulyan station	Enclosed on the approaches. Loud tunnel
Coswarth Tunnel	Train Tunnel	40 mph	2-3 seconds	Between St. Columb Road Quintrell Road stations	Loud tunnel

Truro <> Falmouth Docks (Maritime Line)

Tunnel	Type	Max Speed	Time	Where	Notes
Higher Town Tunnel	Train Tunnel	50 mph	4 seconds	1/4 mile south of Truro station	
Sparnick Tunnel	Train Tunnel	50 mph	23 seconds	Between Truro and Perranwell stations	
Perran Tunnel	Train Tunnel	50 mph	16 seconds	Between Perranwell and Penryn stations	

No tunnels on these routes:

- Liskeard <> Looe (Looe Valley Line)
- St Erth <> St Ives (St Ives Bay Line)

ALTERNATIVE ROUTES – ELIZABETH LINE (Ealing Broadway <> Paddington Low Level)

Tunnel	Type	Max Speed	Time	Where	Notes
Heathrow Junction	Over-Bridge	90mph	5 seconds	½ mile west of Hayes and Harlington station	Reading
Spring Bridge Road	Building Tunnel	80mph & 90mph	8 seconds	Between West Ealing and Ealing Broadway stations	All
Ealing Broadway Station	Building Tunnel	80mph & 90mph	6 seconds	Immediately west of Ealing Broadway station	All
Acton Dive-Under	Dive-under	80 mph	3 seconds	Between Ealing Broadway and Acton Mainline Eastbound only stations	All
Core Tunnel. Portal <> Paddington	Rail Tunnel	60 mph	55 seconds	From around one mile west of Paddington	All

ALTERNATIVE ROUTES – CENTRAL LINE (Ealing Broadway <> Notting Hill Gate)

Tunnel	Type	Time	Where	Notes
White City <> Shepards Bush	Tube Tunnel	173 seconds	Entire journey	
Shepards Bush <> Holland Park	Tube Tunnel	155 seconds	Entire journey	Loud tunnel
Holland Park <> Notting Hill Gate	Tube Tunnel	59 seconds	Entire journey	Loud tunnel

CIRCLE / DISTRICT LINES (Notting Hill Gate <> London Paddington)

Tunnel	Type	Time	Where	Notes
Notting Hill Gate <> Bayswater	Sub Surface	45 seconds	Entire journey	
Bayswater <> Paddington	Sub Surface	55 seconds	Entire journey	

RAIL REPLACEMENT SERVICES

Tunnel	Type	Time	Where
A38 – Saltash Tunnel	Bored	30 seconds	Between Plymouth and St Germans (excluding Saltash)
Reading Station – East /West	Long overbridge	6 seconds	All services calling at Reading station
M4 – Newport	Bored	16-20 seconds	Between junctions 25 and 26 (Newport)